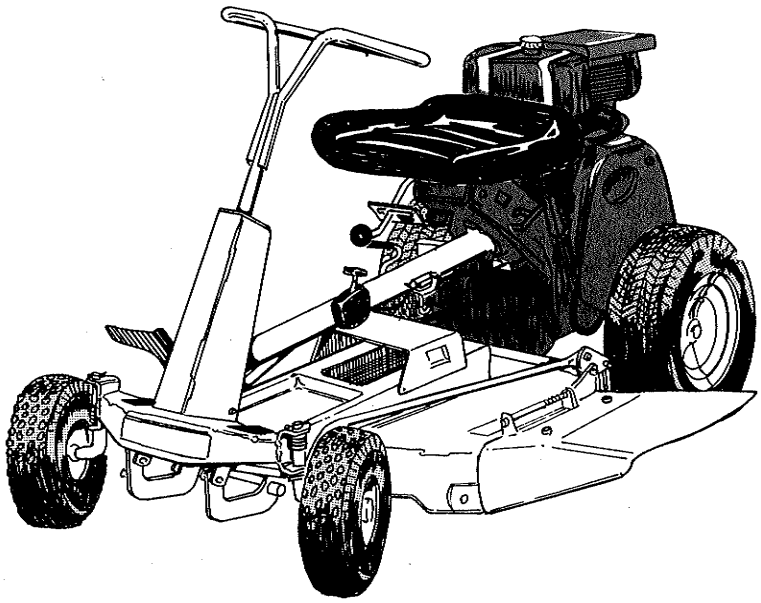
Simplicity®

SYSTEM 3008

2 SPEED

MFG. NO. 1690128 - SYSTEM 3008, 2-SPEED
WITH 30" MOWER

Mfg. No. 1600383 - Rear Mounted Grass Catcher
Mfg. No. 1600408 - Drawbar & Grass Catcher Adaptor
Mfg. No. 1600012 - Wheel Weight
Mfg. No. 1600351 - Counter Weight



OPERATOR'S MANUAL

FORM – 1651761
PRINTED IN U.S.A.
7412

WARRANTY

The Company warrants Simplicity products to be free from defects in material and workmanship, except the Company makes no warranty, express or implied, with respect to tires, engines, generators and voltage regulators, which are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year (45 days for equipment used for rental, municipal or commercial purposes) under normal use, from date of purchase, will be replaced without charge, provided such part is returned to the factory, (If requested), and is found to be defective upon examination at the factory. This warranty does not apply to any Simplicity products altered outside of the Simplicity factory. **THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, PERFORMANCE, OR OTHERWISE.** *The Company's obligation under its warranty is strictly and exclusively limited to the replacement of such parts, and in no event shall the Company be liable for any other damages, whether direct, immediate, incidental, special, or consequential. Simplicity Manufacturing Company, Inc., reserves the right to modify or change specifications without prior notification. There are no warranties which extend beyond the description of any Simplicity product.*

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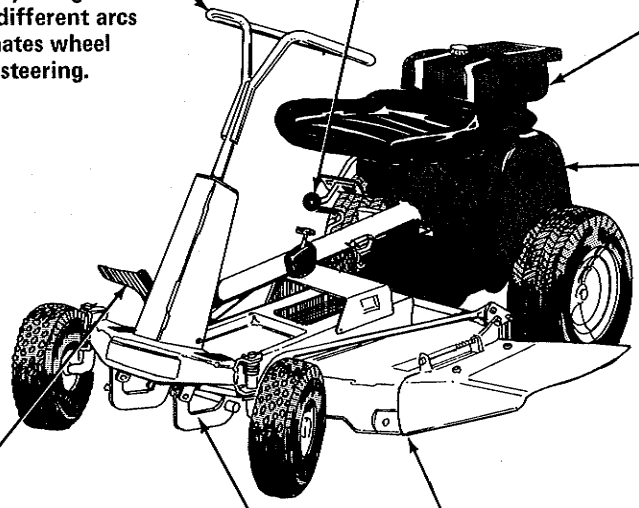
CONVENIENT HAND-OPERATED CONTROLS. Gear shift, throttle and mower clutch lever are all located near the seated operator. The seat helps shield the levers from snagging on bushes and branches.

LARGE, CENTER MOUNTED STEERING WHEEL, provides effective leverage and extra personal support on slopes. Simple draglink 1-to-1 ratio steering features true geometry design. The front wheels follow different arcs when turning; eliminates wheel marks and improves steering.

BRIGGS & STRATTON 8 H.P. KOOL-BORE ENGINE with compression-relieved Easy-Spin starting. Horizontal crankshaft plane and upward angled side pull recoil starter designed for easy, natural motion.



TRANSMISSION. All spur gear, fully enclosed and lubricated. Two speeds forward, one reverse. Differential allows each rear wheel to rotate at required speeds when turning.

30" IN. ROTARY MOWER. Front axle mounted to automatically follow ground contour. 3-1/2" dia. rubber rollers at the rear and two-pin attachment for easy removal. Cushioning belt drive absorbs shocks. Sealed bearings on mower spindles.

COMBINED CLUTCH AND BRAKE PEDAL with heel support. Start, turn and stop with smooth roller action and no wheel skid. Improved Touch-O-Matic clutch converts any transmission speed from zero to maximum for precise "inching" and turning speed. No need to "downshift" on turns.

CHASSIS. Short wheel base, large low-pressure tires, footrests on front axle. Open frame for easy dismounting. Low center of gravity. Oversized, reinforced frame pivot joint between front and rear wheels.

SAFETY PRECAUTIONS TO PROTECT YOURSELF AND OTHERS

IMPORTANT

OPERATION

Know the controls and how to stop quickly. **READ THE OPERATOR'S MANUAL.**

Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.

Do not carry passengers. **KEEP CHILDREN AND PETS A SAFE DISTANCE AWAY.**

Clear work area of objects such as sticks, stones, and wire which might be picked up and thrown.

Transmission must be set in NEUTRAL and mower disengaged when starting engine.

Take all possible precautions when leaving vehicle unattended; such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.

Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes, never across the face.

Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

Stay alert for holes in terrain and other hidden hazards.

Use care when pulling loads or using heavy equipment.

- Use only approved drawbar hitch points.
- Limit loads to those you can safely control.
- Do not turn sharply. Use care when backing.
- Use counterweight (s) or wheel weights when suggested in operator's manual.

Watch for traffic when crossing or near roadways.

Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.

Do not change engine governor settings or overspeed engine.

Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.

FUEL AND FIRE HAZARDS

Handle gasoline with care – it is highly flammable.

- Use approved gasoline container.
- Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
- Open doors if engine is run in garage – exhaust fumes are dangerous. Do not run engine indoors.

Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.

Allow engine to cool before storing in any enclosure.

To reduce fire hazard keep engine free of grass, leaves or excessive grease.

ATTACHMENTS

Disengage power to attachments, shift to neutral, and stop engine before leaving operator position or making any repairs or adjustments.

Disengage power to attachments when transporting or not in use.

When using any attachments never direct discharge of material toward bystanders or allow anyone near vehicle while in operation.

Keep vehicle and attachments in good operating condition and keep safety devices in place. Use guards as instructed in operator's manual.

Vehicle and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.

When using vehicle with mower:

- Mow only in daylight or in good artificial light.
- Never make a cutting height adjustment while engine is running if operator must dismount to do so.
- Shut engine off when removing grass catcher and/or unclogging chutes.
- Check blade mounting bolts for proper tightness at frequent intervals.

IMPORTANT

If on a driveway or smooth, flat spot, mower blades will continue spinning for a short time. To dismount, place your feet well away from mower housing.

STEERING WHEEL

The steering shaft has two holes for mounting the steering wheel in either forward or rearward position. (See figure 1.) Practice and experience will determine which of these two positions is best suited for you.

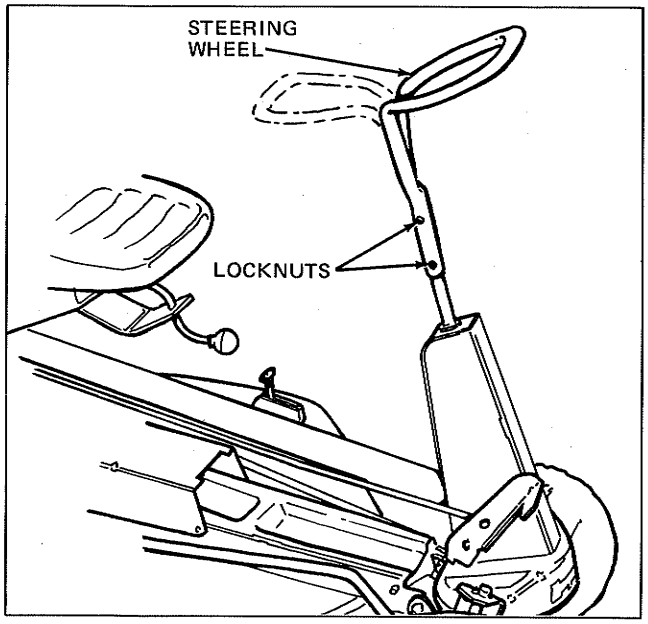


FIGURE 1

CONTROLS (Figure 2)

1. **CLUTCH AND BRAKE FOOT PEDAL:** Push the pedal **DOWN** to declutch and apply brake simultaneously. Always depress the pedal to stop the unit before shifting gears.
2. **THROTTLE LEVER:** Move lever all the way **FORWARD** to engage the choke and to start, **REARWARD** for slower running.

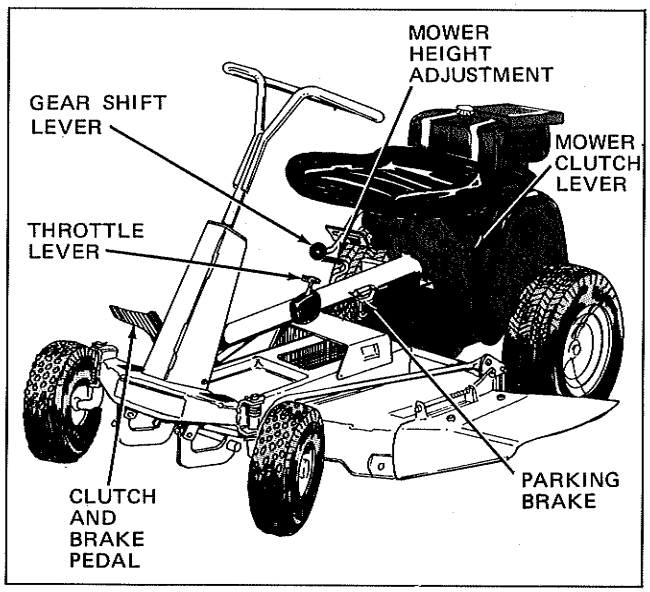


FIGURE 2

3. **MOWER HEIGHT ADJUSTER:** The height adjusting handle raises and lowers the mower at both front and rear. Turn the handle **CLOCKWISE** to raise, **COUNTERCLOCKWISE** to lower.
4. **GEAR SHIFT LEVER:** Depress the clutch and brake pedal and place the shift lever in the desired notch on the shift plate. The lever is easy to move if used properly. It slides back and forth, not up and down. Apply rearward (not downward) pressure to shift. **DO NOT** try to shift gears unless the clutch and brake pedal is depressed and the vehicle is stopped.
5. **MOWER CLUTCH LEVER:** Pull the lever **UP** to engage the mower drive, push **DOWN** to disengage. The engine should be running at 3/4 to full power when the mower drive is engaged.
6. **PARKING BRAKE LEVER:** Pull lever **UP** to engage parking brake, push **DOWN** to disengage.

BEFORE STARTING

Before attempting to start the engine, read the engine owner's manual thoroughly. Be sure to have on hand sufficient quantities of clean, fresh **REGULAR** grade gasoline and 10W-30 grade SE (formerly MS) motor oil.

NOTE: Pay attention to "Service Designation" stamped on the top of each can of oil you intend using in your engine. Use oil labeled SE or MS, but do not use ML or MM labels as they do not contain sufficient additives for proper protection. Labels DL and DM may be used also; however, DO NOT use a DS label oil as it is too severe in detergent quality for this application. Be sure to use a premium grade oil.

1. Remove the engine crankcase filler plug by turning counterclockwise. (See figure 3.) The plug is located at the rear left side of the engine. Fill the crankcase with 10W-30 grade SE or MS oil until level reaches top of the filler neck. Wipe up any spilled oil. Reinstall the filler plug securely. **CHECK THE OIL LEVEL EVERY TIME FUEL IS ADDED.**

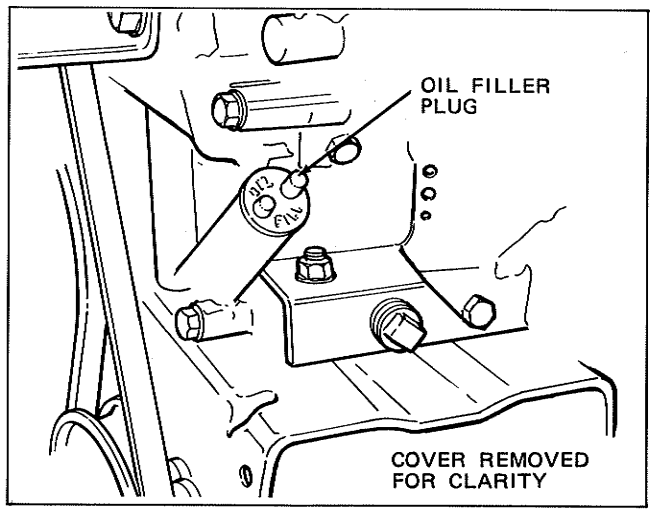


FIGURE 3

2. Remove the fuel tank filler cap (figure 4) and fill the tank completely with clean, fresh **REGULAR** grade gasoline. Use a can with flexible spout.

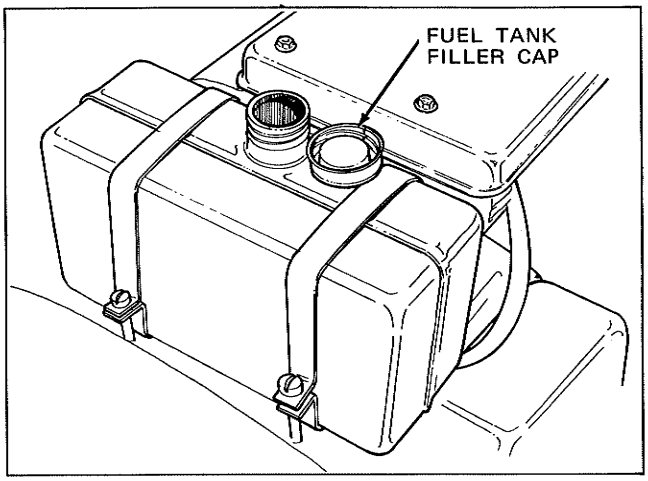


FIGURE 4

CAUTION: GASOLINE IS HIGHLY INFLAMMABLE. AVOID OVERFILLING AND WIPE UP ANY SPILLED FUEL. ALLOW NO OPEN FLAME, SMOKING OR MATCHES NEAR THE AREA WHEN REFUELING.

Replace the filler cap securely. Store gasoline in small quantities; prolonged storage produces harmful gum and deposits. If it is necessary to store gasoline for prolonged periods, add a gasoline stabilizer. (See Off-Season Storage.)

3. Before attempting to start, place transmission shift lever in neutral position (figure 5) and disengage the mower drive by moving the clutch lever down (figure 6).

4. Check the tire pressure. Inflate front tires to pressure of 22 to 25 psi. Inflate rear tires to 10 psi.

5. The vehicle is lubricated at the factory, but before operating, all grease fittings and other lubrication points should be serviced. (See Maintenance, Lubrication for instructions.)

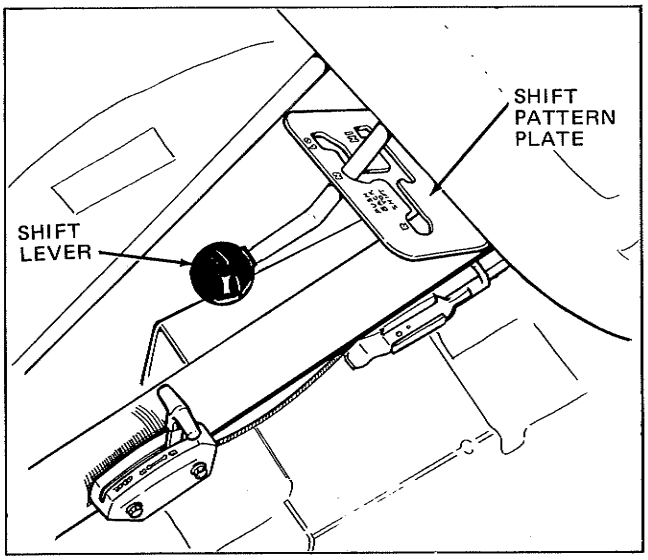


FIGURE 5

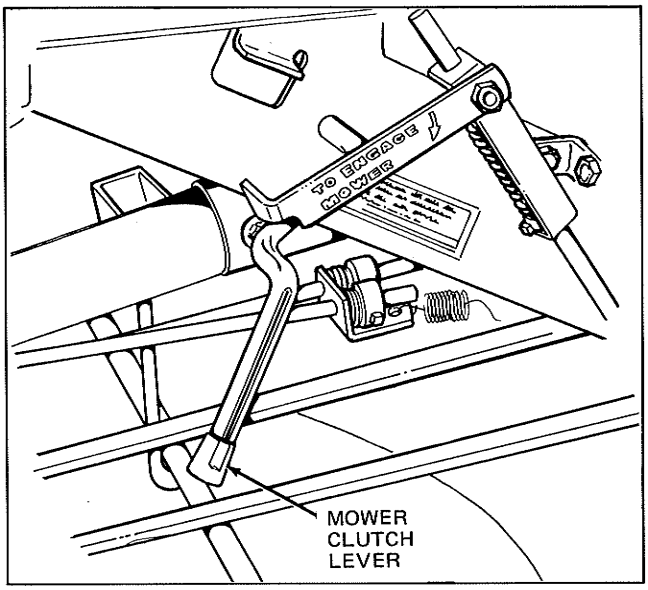


FIGURE 6

STARTING

1. Using key, turn ignition switch, under right side of seat, to **ON** position.

2. Move throttle lever all the way forward to close the choke. (See figure 7.) Always move to this position to start, whether engine is warm or cold. Make sure shift lever is in neutral (figure 5) and mower disengaged. (See figure 6.) Shift lever must be completely up into neutral (N) notch of shift pattern plate or engine will not start.

3. Grasp recoil starter handle firmly in your right hand and pull sharply straight out. (See figure 8.)

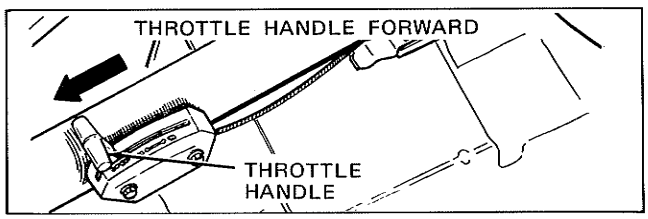


FIGURE 7

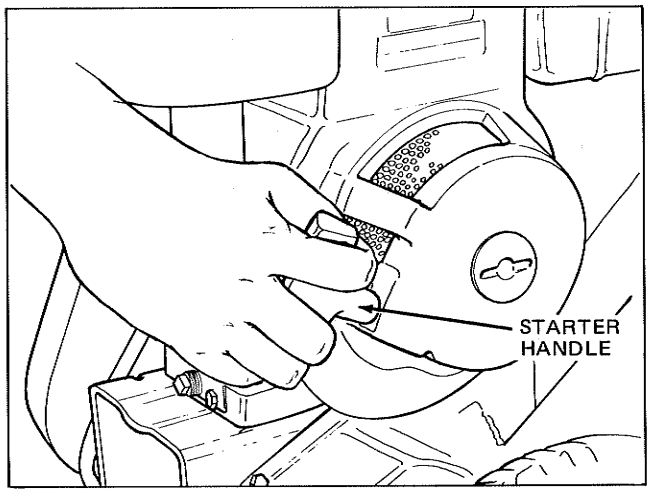


FIGURE 8

WARNING: DO NOT RELEASE STARTER HANDLE WITH ROPE EXTENDED; RETURN IT TO COVER BY HAND.

4. If engine fails to start after four or five pulls, it may be flooded. Move throttle lever rearward to slow position and pull starter handle several times to clear excess fuel from carburetor.
5. After engine starts, move throttle lever to a 3/4 to full position. Mowing is recommended at these throttle settings.

BEFORE OPERATING

Before beginning to mow, you should familiarize yourself fully with the sequence of operation. Proceed as follows:
1. With engine running, the shift lever in neutral, and the mower clutch lever disengaged as shown in **STARTING,** seat yourself on the mower and move the throttle lever forward to give full engine speed. (See figure 9.)
2. Depress the clutch-brake pedal. (See figure 9.) This disengages the transmission for shifting and applies the brake at the same time.

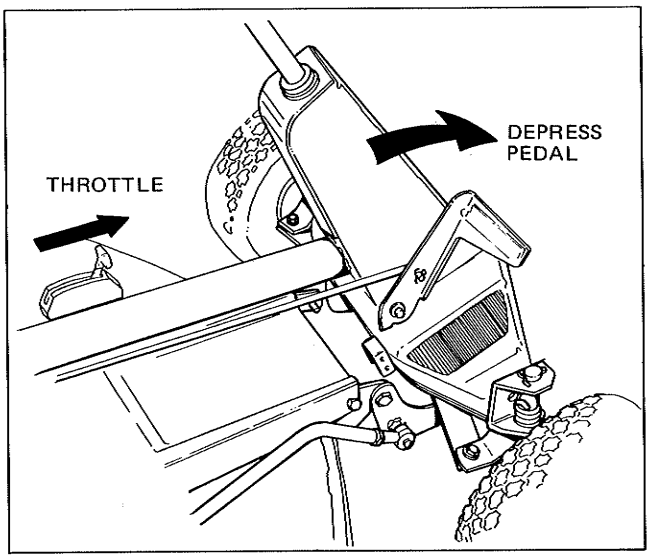


FIGURE 9

3. Have the front wheels centered straight ahead and hold the steering wheel with one hand. Move the shift lever to **HI** or **LO** as desired. Remember to push rearward **NOT** downward on the shift lever. (See figure 10.)

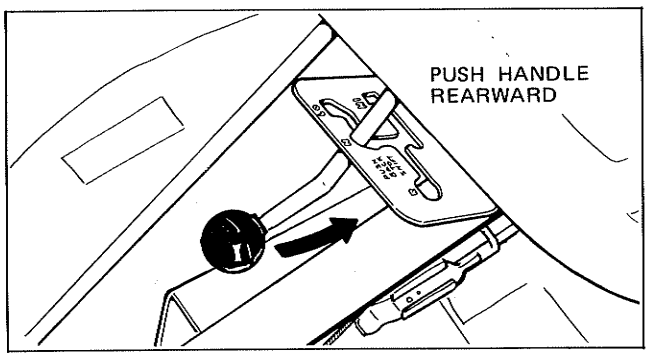


FIGURE 10

CAUTION: CHANGE GEARS ONLY WHEN MACHINE IS MOTIONLESS AND CLUTCH-BRAKE PEDAL IS DEPRESSED.

4. Gradually release the clutch-brake pedal to start moving. Drive on level ground until you get the feel of the machine. To stop forward motion quickly, depress the pedal. Try slower throttle settings, shift gears, practice steering and handling until you are ready to start mowing.
5. Before mowing, the cutting height adjustment of the mower must be checked. Move the machine onto a flat surface such as a driveway and check the cutting height settings as outlined under Adjustments.

OPERATION

1. Engage the mower blade drive by pulling the clutch control lever **UP.** (See figure 11.) The engine must be running at 3/4 to full throttle speed.

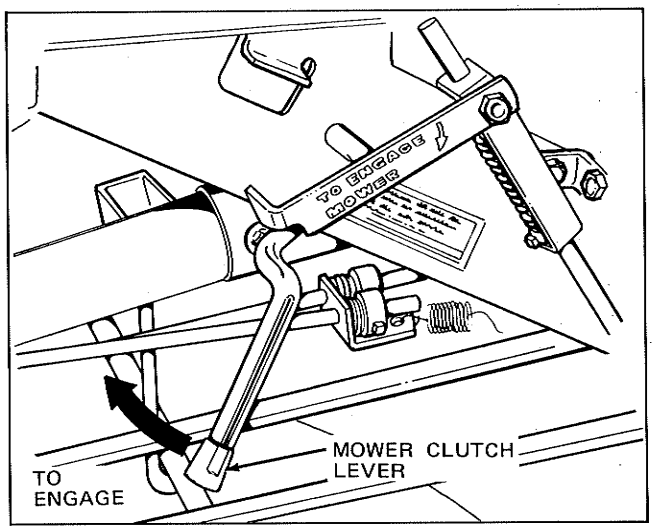


FIGURE 11

2. The height adjusting handle at the rear right side of the mower housing raises and lowers the mower at both front and rear. Twist the handle **CLOCKWISE** to **RAISE** the blade and **COUNTERCLOCKWISE** to **LOWER** it. (See figure 12.)

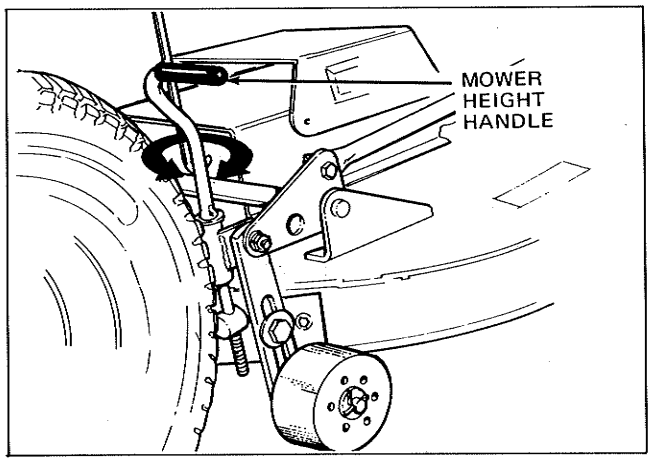


FIGURE 12

3. Most lawns should be mowed to keep the height of the grass approximately 2-inches high. Under dry conditions, it should be allowed to grow higher. To keep a green lawn, **NEVER** mow more than one-third off the height of the grass or a maximum of 1 inch in one mowing. For extremely tall grass, set the cutting height at **MAXIMUM** for the first mowing, then reset to the desired height and mow again.
4. The 30-inch mower is designed to cut grass at a height of 1-1/2 to 3-1/2 inches. Best results are obtained by cutting often and not too short. Allow the grass to grow to 3 inches, then cut off only the top 1 inch.

MOWING PATTERN

For the first use of the mower, choose a smooth, level area. Cut long, straight strips overlapping slightly. After getting used to the operation, proceed to inclines or rough ground.

Guide the right side of the mower along trees, posts or other obstacles and follow the contour as closely as possible.

DISPERSAL: If the clippings are to remain on the lawn, mow with the discharge side toward the area already cut. If the clippings will be raked up later and the grass is at a normal height of 3 inches or less, it is practical to disperse the clippings into the un-cut area. There they will be concentrated in the center of the lawn for minimum raking.

WET, THICK OR HEAVY GRASS: Start at the outer edge of the area. Because of left-hand discharge, mow clockwise so that clippings are always deposited on cut grass. Less engine power is required and a more even cut free of streaks will result.

HEIGHT SETTING: On thick or springy grass, do not set the cutting height too low. The wheels may sink into the lawn, resulting in too short a cut. (See Adjustments.)

For best appearance, new grass should be cut in the afternoon or evening when it is free of moisture.

Change patterns occasionally to eliminate matting, graining and a corrugated appearance. (See figure 13.)

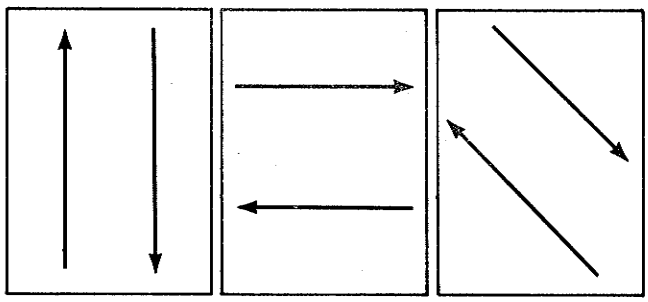


FIGURE 13

CAUTION: IF YOU FEEL SEVERE VIBRATION WHEN MOWING, THE BLADE IS UNBALANCED. HAVE IT BALANCED BEFORE FURTHER USE. (See Maintenance.)

STOPPING

To stop engine, move throttle lever completely rearward and turn ignition switch key to **OFF** position. Remove key before leaving tractor.

ADJUSTMENTS

MOWER LEVELING

1. Move the mower onto a flat, smooth surface and block wheels.

CAUTION: BE SURE ENGINE IS NOT RUNNING (KEY REMOVED), TRANSMISSION IS IN NEUTRAL, AND MOWER DRIVE IS DISENGAGED (CLUTCH LEVER DOWN).

2. Rotate the blade by hand so that it is positioned with blade tips pointing to front and rear. Engage mower by pushing mower clutch lever up. (See figure 11.)
3. Measure the distance from each blade tip to the ground. The dimension at point (A) in the diagram must be 1/16 to 1/8 inch greater than at point (B). (See figure 14.) In other words, the mower should be pitched down 1/16 to 1/8 inch.

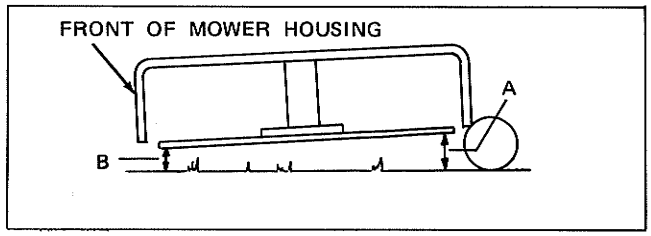


FIGURE 14

4. To raise or lower the front of mower, remove retaining ring securing eyebo't on link arm. (See figure 15.) Slide eyebolt from link arm, and loosen jam nut. Turn eyebolt in or out of adjusting arm as required. Slide eyebolt back on link arm and check blade height. Tighten jam nut when proper height is attained. Repeat the adjustment, keeping both adjusting arms equal in effective length until the front of the mower blade is 1/16 to 1/8 inch lower than the rear. When the height adjustment is complete replace the retaining ring.

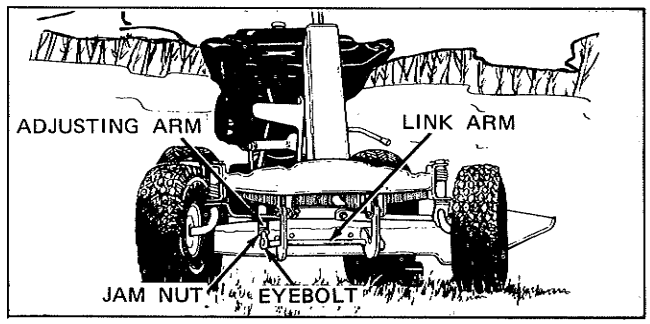


FIGURE 15

5. Disengage mower by pushing mower clutch lever down and rotate blade 90 degrees. Engage mower again by pushing mower clutch lever up.
6. Measure distance from blade ends at each side to ground. The measurements should be the same within 1/8 inch.
7. Raise or lower the entire mower by twisting the height adjustment handle (figure 12) until the front of the blade is at the cutting height desired. (See Operation.)

MOWER CLUTCH LEVER: When the mower drive is engaged (lever up), there should be about 1/2-inch clearance between the clutch rod set collar and the lower ear of the rod bracket. (See figure 16.) Loosen the set screw in the collar to adjust. **DO NOT** adjust the set collar to completely compress the spring.

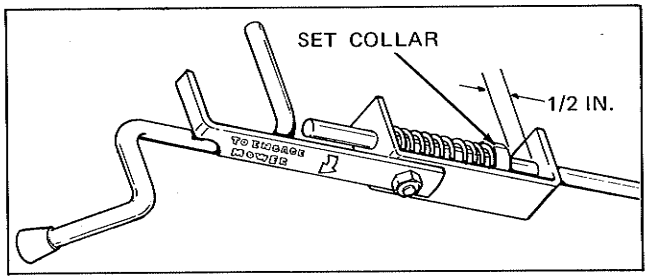


FIGURE 16

CLUTCH AND BRAKE PEDAL (Figure 17)
1. Place clutch and brake pedal in engaged (up) position.
2. Position brake set collar 1-1/8 to 1-1/4 inches from clutch rod bracket.
3. Position locknut approximately 1/8 inch from end of clutch rod.
4. Adjust clutch set collar against spacer so clutch tension spring has no preload when pedal is in disengaged (down) position and rod guide assembly is against locknut.
5. Check brake adjustment by fully depressing pedal assembly and noting brake engagement. If necessary, move brake set collar slightly forward until brakes engage.

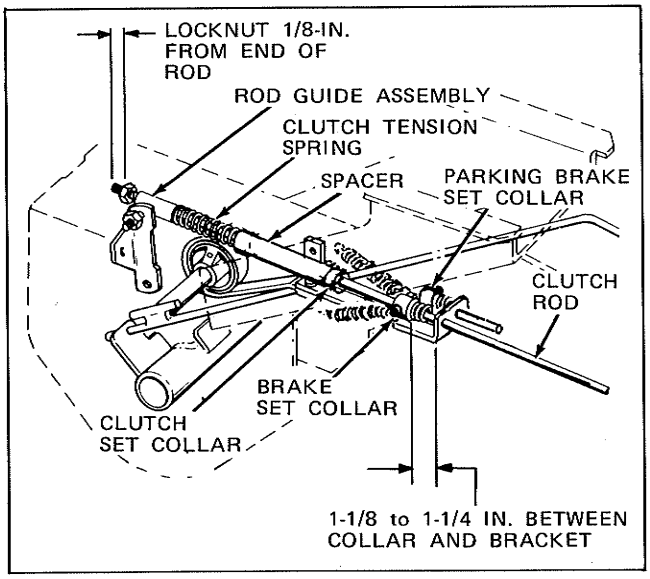


FIGURE 17

PARKING BRAKE
Position parking brake set collar (figure 17) so brake is fully applied when parking brake is in vertical (up) position. Parking brake must lock rear wheels when applied. Move set collar forward to increase parking brake tension.

BELT STOP: Set the belt stop fingers by bending so there is about 1/16-inch clearance between stop and belt when the clutch is engaged. The belt stop can be repositioned slightly if necessary by loosening the mounting bolt. (See figure 18.)

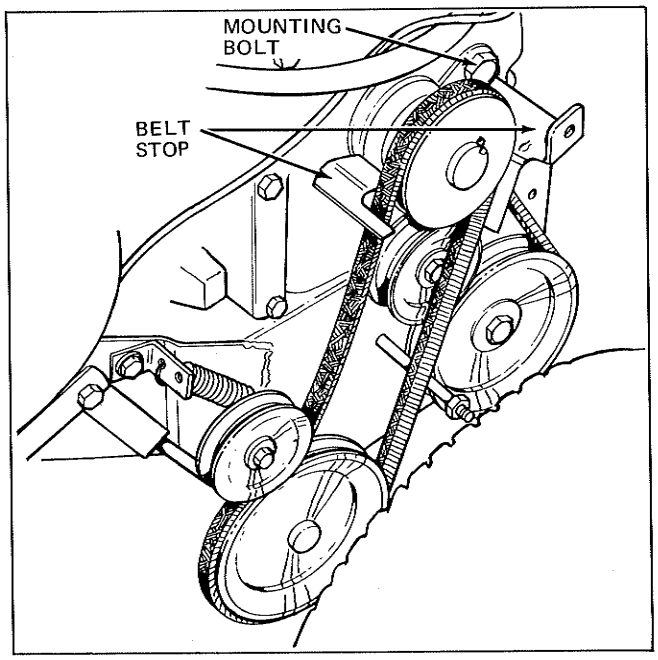


FIGURE 18

MAINTENANCE

ENGINE: Follow the regular procedures outlined in the engine owner's manual. Check the crankcase oil level every time fuel is added or every five operating hours. Change the crankcase oil and service the air cleaner every 20 operating hours.
1. The crankcase should be drained when the engine is warm. To drain, remove oil drain plug (figure 19) at rear of unit. Replace drain plug securely and remove filler plug. Fill crankcase with clean 10W-30 grade SE or MS motor oil.
2. Turn the screw on the air cleaner cover counterclockwise to loosen. Remove cover. Wash the foam air cleaner element in kerosene or liquid detergent and water, squeezing several times, and dry it thoroughly. Saturate it with engine oil, squeeze several times to remove the excess and reinstall.
3. Thoroughly clean all clippings, dirt and chaff from the cooling fins on the cylinder and head to prevent damage from overheating.
4. Clean and re-gap the spark plug every 100 operating hours. Gap to .030 inch. **DO NOT** clean the plug by sandblasting-this process often leaves a residue of grit in the plug which can cause engine damage. Clean the plug with solvents, scraping or using a wire brush, then re-gap. If a plug cannot be cleaned sufficiently by these methods, it should be discarded.

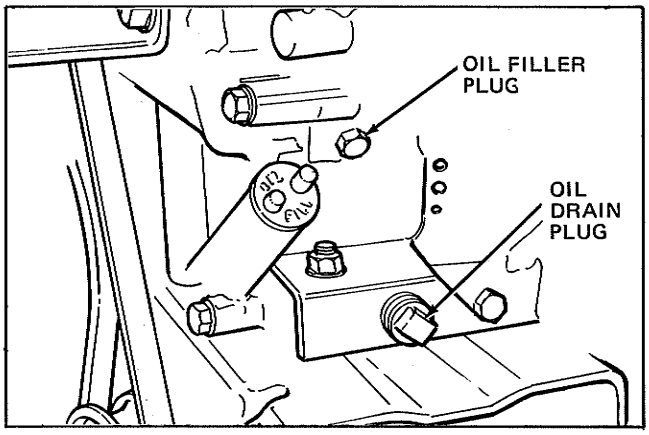


FIGURE 19

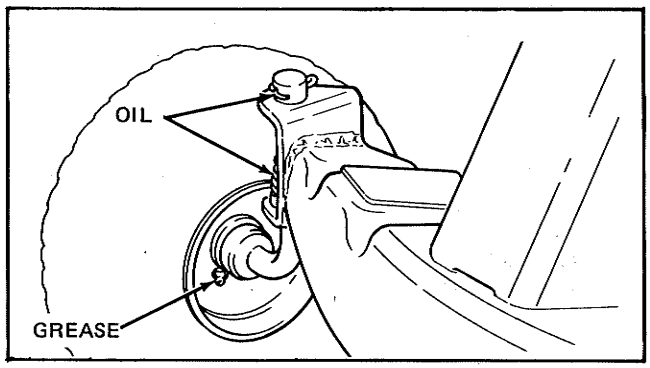
GREASE FITTINGS: There are five grease fittings on the machine, located as shown in figure 20. Grease all fittings every 10 operating hours. Use a Lithium-based, general purpose automotive grease. Remove all dirt, grit and paint from the fittings before application.

Apply light engine oil at both mower rollers and at the points indicated every 10 hours. Do not allow oil to drip onto belts or pulley grooves.

1. Grease both front wheel bearings. Oil wheel spindles and steering linkages.
2. Grease rear axle shaft on left side. Oil mower clutch lever, pivot shaft and rod.
3. Grease fitting on top of transmission housing.
4. Grease power take-off pulley shaft. Oil all joints and sleeves of shift linkage and brake-clutch linkage.
5. Grease shift lever where it touches plate. (See figure 21.) Oil pedal pivot, height adjusting handle, choke plunger, frame main pivot and steering shaft.

MOWER: Remove and install the mower unit as follows:

1. Declutch the mower drive by pushing the clutch lever **DOWN**. Pull the power take-off pulley and shaft assembly forward to produce enough slack to slip the belt off.
2. Disengage the rear mower suspension hook (figure 22). Pull up on the rear lever crossbar and swing the hook to the rear.
3. Pull out the front mounting pin spring clips and knock out the pins. (See figure 23.) Proceed with care - when the pins are removed, the mower will be free to drop to ground.
4. Turn the front wheels all the way to the right and slide the mower out from under the frame toward the left side.
5. It is not recommended that the unit be driven without the mower in its proper place. However, if the unit is to be operated in this fashion, it may be necessary to readjust the PTO safety switch to allow the engine to be started.
6. To install the mower unit, attach the front pins first, then the rear hook. Be sure the clutch is disengaged before reinstalling the belt. Check to see the belt is installed correctly and seated properly in the pulleys. (See Belt Replacement.)
7. Clean all grass clippings and material from the housing. Rotate the blade by hand to see that the ends are level with each other. Inspect the blade closely after each mowing.
8. Sharpen or remove small nicks from blade with a file or stone. Deep nicks in the cutting edge can only be corrected by grinding, which requires that the blade be balanced.



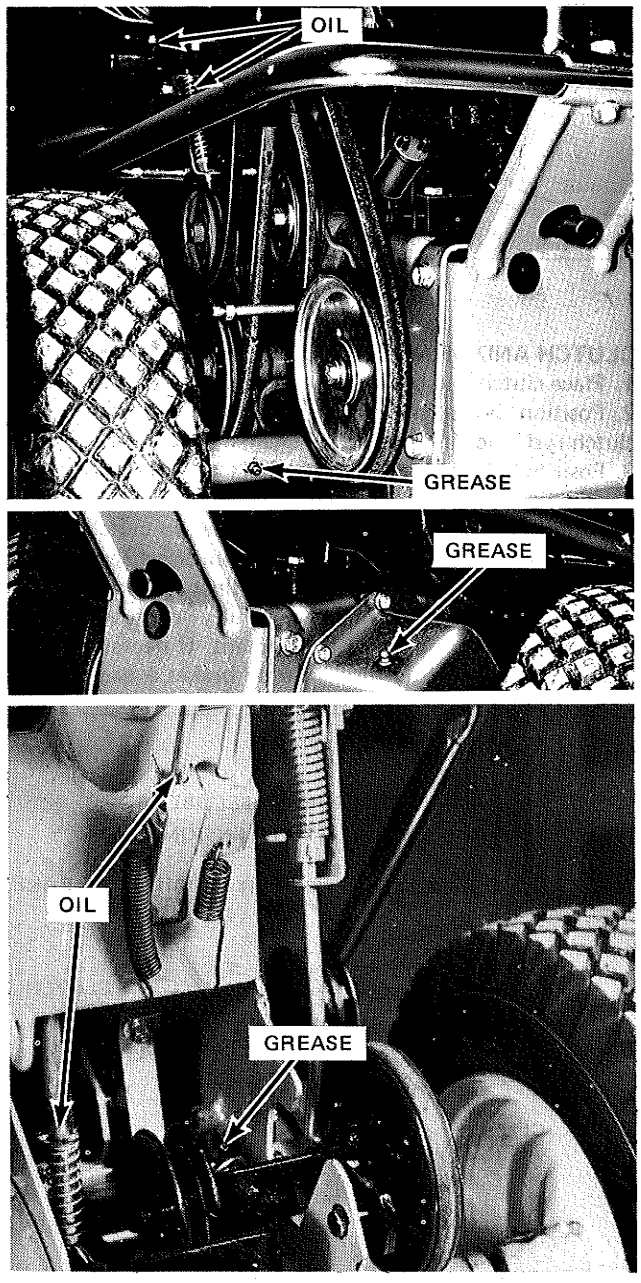


FIGURE 20

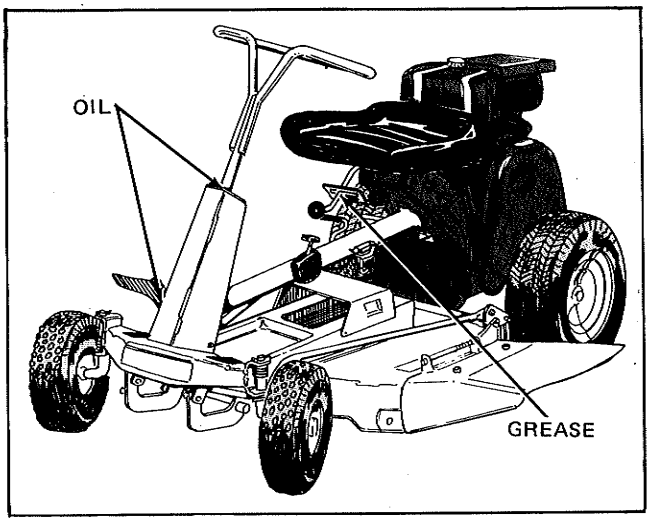


FIGURE 21

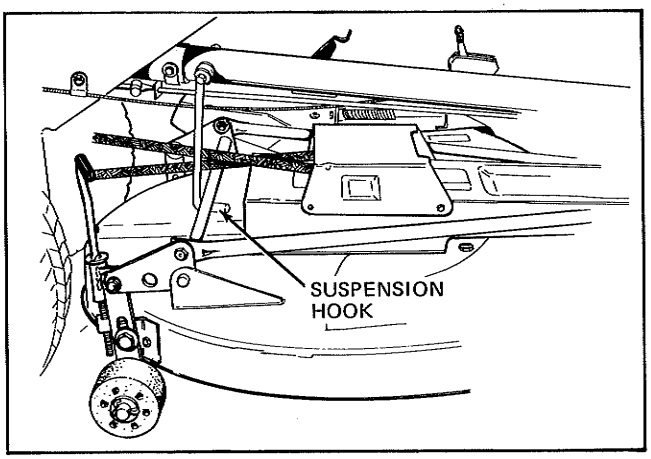


FIGURE 22

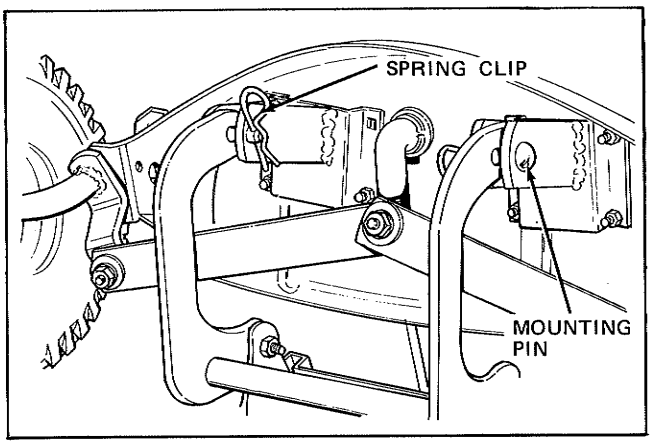


FIGURE 23

BLADE REPLACEMENT

Do not attempt to remove the blade until you have the correct size wrench for the blade mounting bolts.

To replace the blade, proceed as follows:

1. Block the blade (figure 24) and remove the two 3/8" cap-screws which secure the blade to the arbor assembly.

CAUTION: ALWAYS USE SEVERAL LAYERS OF FOLDED CLOTH OR A LEATHER GLOVE OVER THE HAND WHEN HOLDING THE BLADE.

2. To sharpen the blade yourself, clamp it in a vise and use a 10-inch file along the original bevel. File to a razor edge. To balance, insert a knife blade or small rod through center hole to see if blade rests with both ends balancing evenly. File heavy side until even.

CAUTION: ALWAYS HANDLE THE BLADE WITH CARE TO AVOID INJURY.

3. Carefully clean the blade and arbor. Install the new or sharpened blade with the lift tabs toward the top. Install the blade mounting bolts and torque them at 40 to 50 foot-pounds. Use a block to hold the blade for tightening. Rotate the blade by hand slowly to see that it clears the housing all around and the tips are running true.

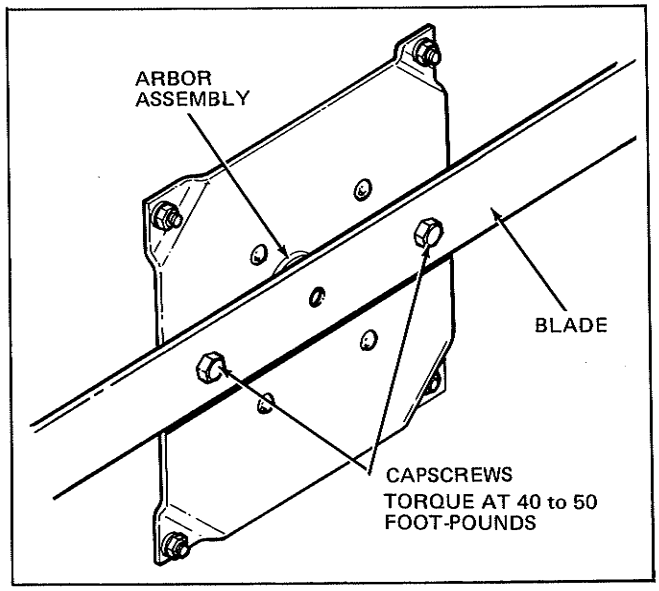


FIGURE 24

BELT REPLACEMENT: It is essential that the mower belt be correctly installed. (See figure 25.) Note that the belt must run from the **TOP** of the PTO pulley to the **RIGHT** side of the mower pulley and from the **LEFT** side of the mower pulley to the **BOTTOM** of the PTO pulley.

If oil has been spilled on any of the belts, use a cleaning fluid on a rag to clean it. An alternate method is to sprinkle a handful of Drizit or Kitty-Litter compound on the belt while running.

If the mower is properly adjusted and in apparent good condition but seems to require excess engine power, it may be that the arbor shaft or sleeve has been damaged by hitting an obstruction. Check the blade drive system. The rotor spindle should turn easily with drive belt removed. If not, the unit is robbing power from the engine.

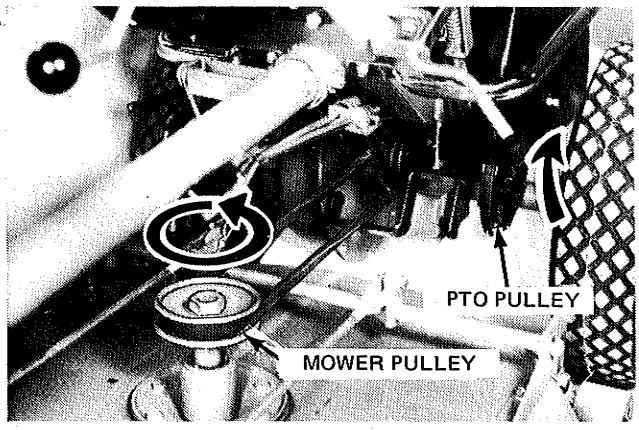


FIGURE 25

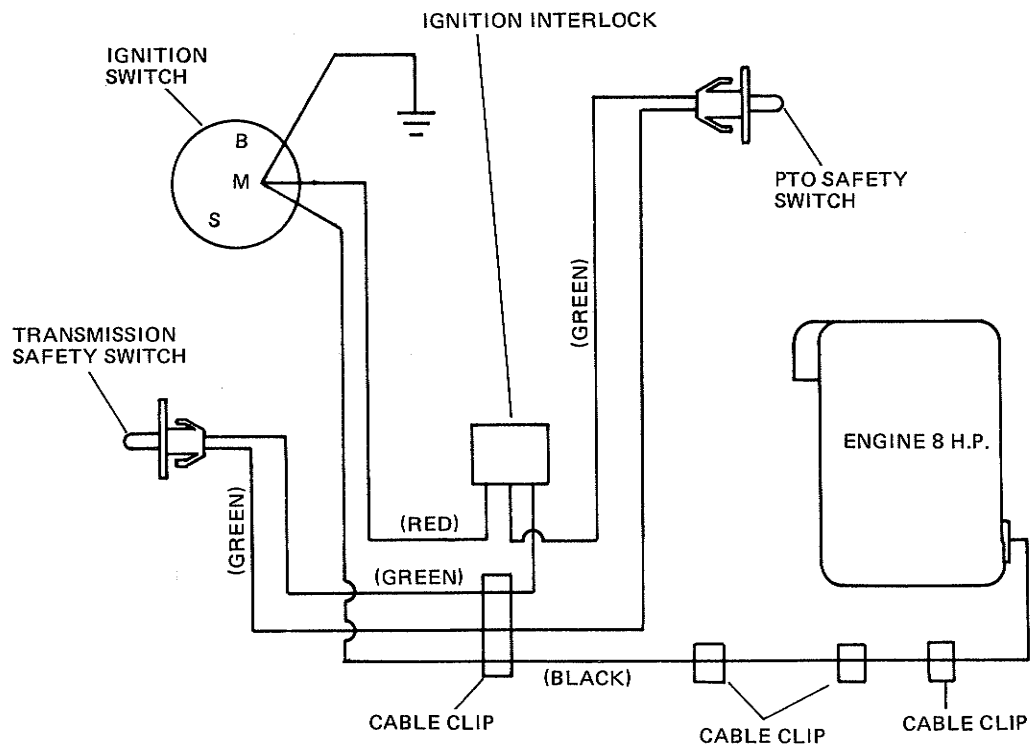
GENERAL REPAIRS: To prevent rusting, sand off and paint any parts or areas which become chipped or damaged. Apply a good rust preventative to all bare metal parts. Tighten all fasteners and guards securely.

WIRING: If a malfunction in electrical wiring or components is suspected, refer to the following wiring diagram and the wiring parts list.

OFF-SEASON STORAGE

1. Drain the fuel tank completely by running the engine until it stops. If desired, fuel can be stored in containers or in the tank by using a gasoline stabilizer. Follow the directions on the container. This additive prevents formation of gum and varnish for up to one year, providing easier starting and a clean fuel system.
2. Drain and refill crankcase while engine is warm. (See Maintenance.)
3. Remove spark plug. Pour 1 ounce of 10W-30 oil into cylinder through plug hole. Crank engine a few times to distribute oil. Reinstall plug.
4. Clean dirt and chaff from cylinder head fins and engine housing.
5. Apply grease to all fittings and light engine oil to all points listed in Maintenance.
6. Block the machine up off the wheels to relieve weight and keep tires off a damp floor. Protect the tires from prolonged exposure to direct sunlight.
7. Store the machine in a dry place indoors.

WIRING DIAGRAM



STARTING AFTER STORAGE

1. Remove the spark plug and wipe it dry. Crank the engine a few times to blow the excess oil out of the plug hole, then reinstall the plug.
2. Fill the fuel tank completely with fresh **REGULAR** gasoline.
3. Service the air cleaner. (See Maintenance.)
4. Check the crankcase oil level and replenish if necessary.
5. Start the engine and let it run slowly. **DO NOT** run at high speed immediately after starting. Run the machine outdoors or in a well-ventilated area.
6. Inflate the tires to operating pressure. (See Specifications.)

TROUBLESHOOTING

For instructions to overcome the following problems, see Adjustments and Maintenance.

IF ENGINE FAILS TO START, check the following:

1. Throttle lever must be all the way forward to the choke position.
2. Shift lever must be in **neutral** position.
3. Mower clutch lever must be down in **disengaged** position.
4. Spark plug cable must be securely connected.
5. Ignition key must be turned on.

IF BELT SLIPPAGE OCCURS, check the following:

1. Belts may be stretched or excessively worn.
2. Pulleys may be greasy or oily.
3. Insufficient belt tension due to a broken or worn tension spring.
4. If the mower drive belt jumps off the pulley when clutch is engaged or disengaged, there may be too much belt slack or the mower idler pulley belt guards may be out of position.

IF A BELT BREAKS, check the following:

1. Look for sharp edges or rough spots on pulleys.
2. Pulleys may be misaligned.
3. Belt tension may be too tight.

IF HANDLING IS DIFFICULT, check the following:

1. Controls or drive systems may be out of adjustment.
2. Tires under-inflated. Inflate front tires to 10 psi, rear tires to pressure of 22 to 25 psi.
3. Wheels spinning on slopes. Wet grass is very slippery; mow in the late afternoon after it has dried. Wheel weights may be added to provide additional traction.

IF AN UNEVEN CUT RESULTS, check the following:

1. Mower may not be adjusted properly. (See Mower Leveling in Adjustments section of this manual.)
2. Mower housing may be bent or damaged.
3. Blade arbor tube may be bent.

IF A POOR OR ROUGH LOOKING CUT RESULTS, check the following:

1. Blade may need sharpening.
2. Grass may be too high.
3. Drive belt may be slipping.
4. Mower may be out of adjustment.
5. Engine speed may be too low. Run at 3/4 to full throttle.

IF VIBRATION OCCURS, check the following:

1. Arbor shaft or tube (or both) may be bent.
2. Blade may be unbalanced.
3. Drive pulley may be bent or misaligned.

For instructions on removal and installation of the mower unit, see Maintenance.

ATTACHMENTS

The following attachments are available for this tractor:

REAR MOUNTED GRASS CATCHER AND ADAPTORS

Lawn clippings may be collected with the grass catcher. It mounts on the rear of the tractor with the aid of the Drawbar and Grass Catcher Adaptor Kit.

COUNTERWEIGHT

A front counterweight is recommended when using a rear mounted catcher on slopes of 15 to 30 percent. **DO NOT MOW WITH OR WITHOUT CATCHER ON SLOPES GREATER THAN 30 PERCENT.**

REAR WHEEL WEIGHTS

Two rear wheel weights are recommended when mowing across 20 to 30 percent slopes. **DO NOT MOW WITH OR WITHOUT WEIGHTS ON SLOPES GREATER THAN 30 PERCENT.**

To add the above attachments to the tractor, refer to the instructions packed with each.

SPECIFICATIONS

ENGINE

Make	Briggs & Stratton
Model No.	190402 Type 0809-01
Horsepower	8
Cycles	4
Cylinders	1
Crankshaft	Horizontal
Starter	Manual Rewind
Ignition	High Tension Magneto
Governor	Adjustable Mechanical Type
Air Cleaner	Sealed Housing, Reusable Oiled Foam Element
Choke	Chokematic
Crankcase	Lubrication: Splash System Oil Capacity: 2-3/4 Pints
Fuel Capacity	4 Quarts
Muffler	Quiet, Rear Discharge

TRANSMISSION

Type	All Gear, Fully Enclosed and Lubricated
Speeds	Two Forward, One Reverse
Speed Range (MPH Maximum)	Low: 2.23 High: 2.96 Reverse: 2.23
Differential	Type: All Gear, Fully Enclosed and Lubricated

ROTARY MOWER

Mounting	Suspended from and Tilts with Front Axle
Width of Cut	30"
Height of Cut	1-1/2 Inches to 3-1/2 Inches
Drive	Cushioning V-Belt with Lever Control
Adjustment	Single Knob Controls Front and Rear Height
Spindles	Sealed Rolling Contact Bearing Mounted
Rear Support	Three Rollers, 2 at 2", 1 at 3-15/16" Wide
Housing	Drawn Steel

SPECIFICATIONS

CHASSIS

Frame	Heavy Gauge Steel with Main Pivot Below Seat
Rear Wheels	Pneumatic, Inflation Pressure: 10 psi Size: 16.00/6.50 x 8
Front Wheels	Pneumatic, Inflation Pressure: 22 to 25 psi Size: 4.10/3.50 x 4 Bearings: Powdered Iron, with Grease Fittings
Seat	Type: Bucket, Rubber Mounted Cover: Leatherette on Bonded Foam
Turning Radius	Inside Rear Tire: 23.5 Inches
Stability	With Wheel Weights: 30% Uphill and Sidehill Slope Without Wheel Weights: 20% Uphill and Sidehill Slope

CONTROLS

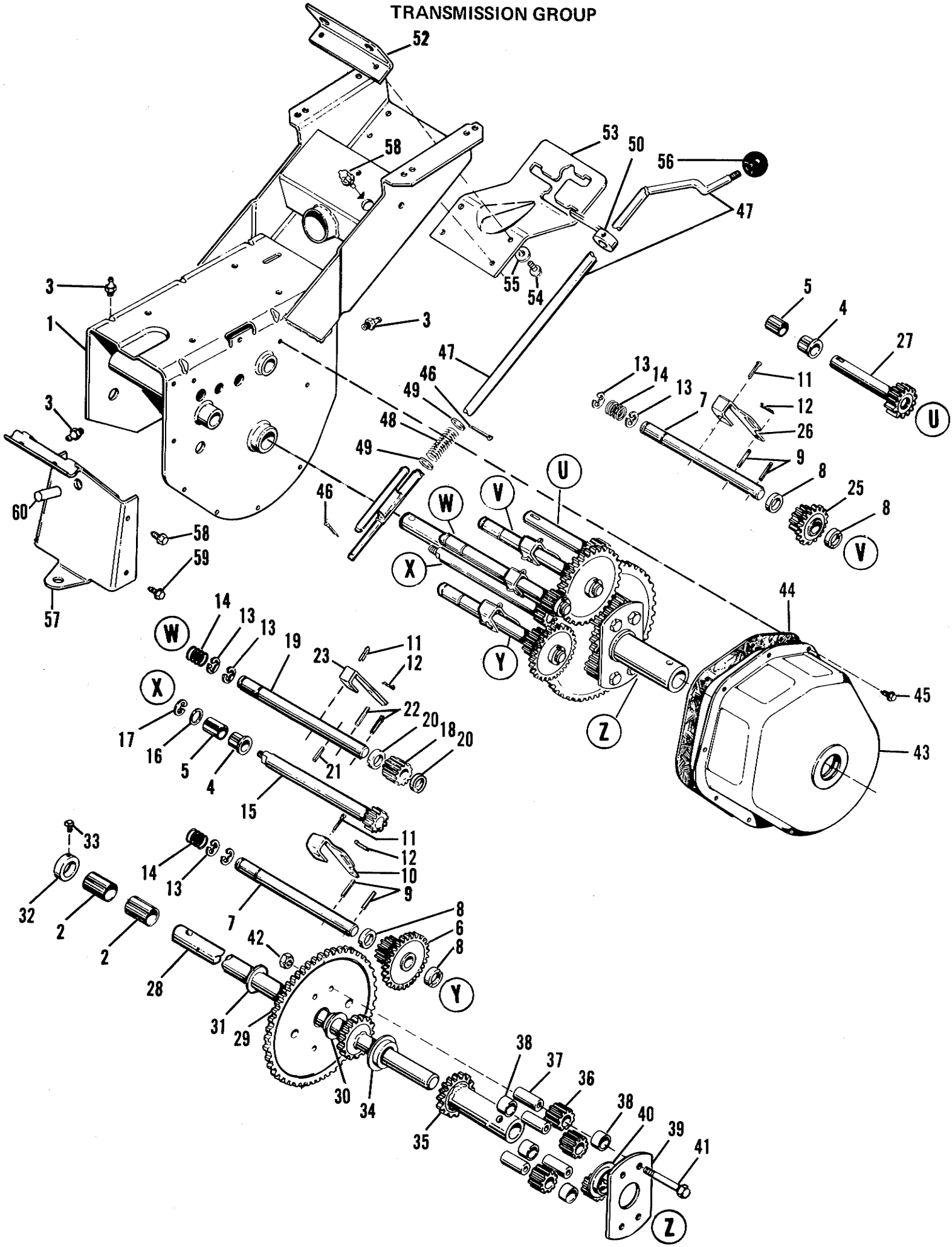
Steering	Control: Steering Wheel Type System: 1 to 1 Ratio, Lever and Drag Link
Clutch and Brake Pedal	Location: Right Front Clutch: Soft Action, Touch-O-Matic, V-Belt Brake: Foot Operated Band Type
Parking Brake	Location: Below Gear Selector
Gear Selector	Location: Front Center of Seat
Mower Clutch	Location: Left Side of Seat
Throttle Control Starter	Location: Front Center on Shaft Location: Right Side of Engine

DIMENSIONS

Overall Length	61.5 Inches
Overall Width	With 30 Inch Mower: 40 Inches Without 30" Mower: 29"
Overall Height	To Top of Steering Wheel: 39.0 Inches To Top of Engine Cover: 30 Inches
Wheel Base	45.00 Inches
Shipping Weight	With 30 Inch Mower: 287 Lbs.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

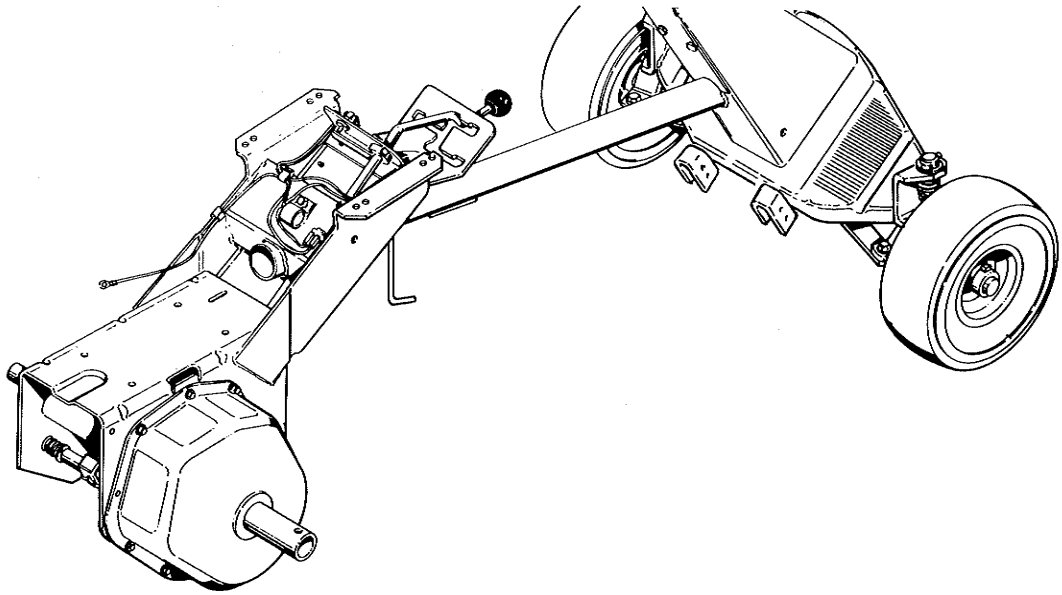
TRANSMISSION GROUP



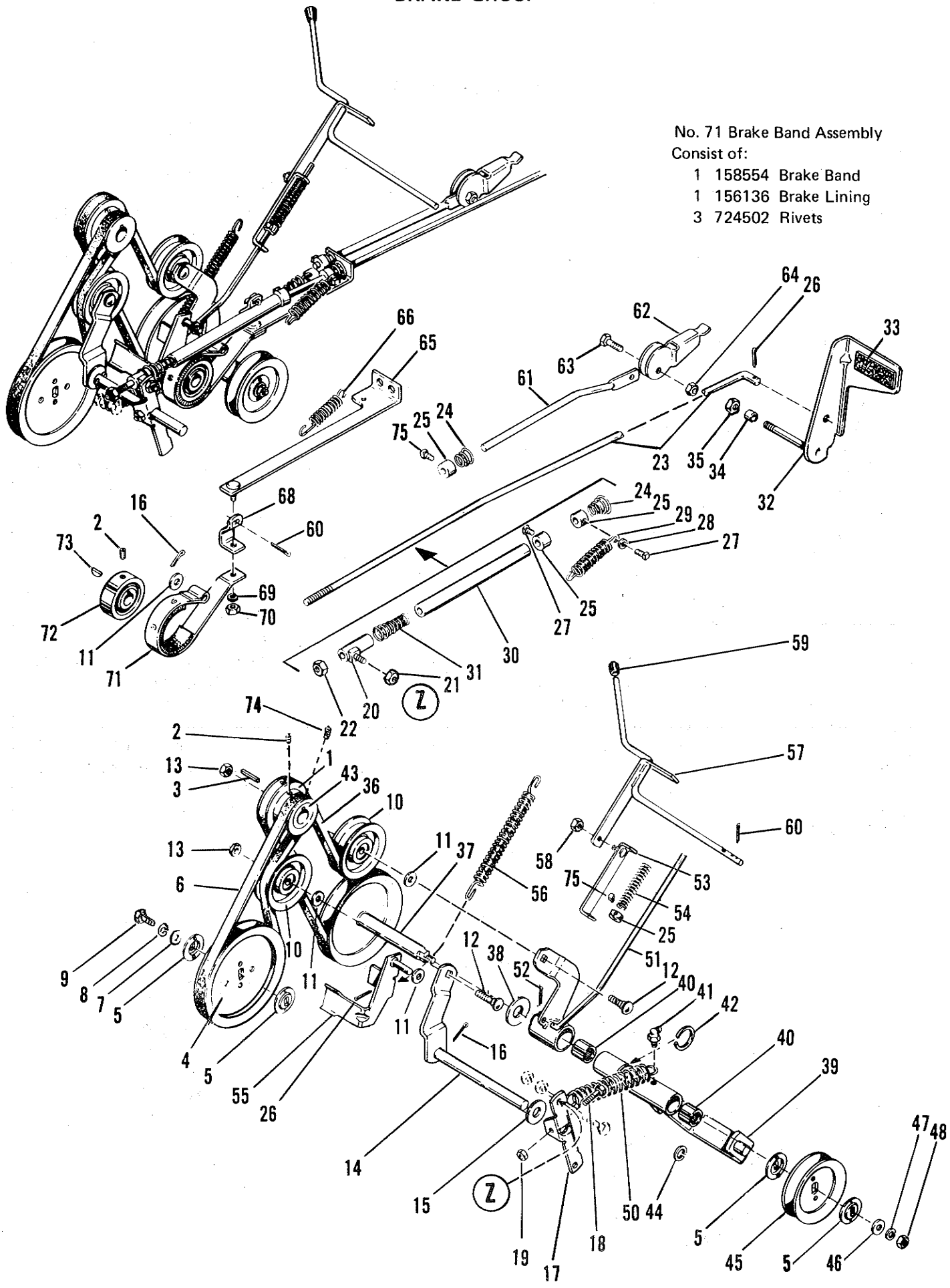
TRANSMISSION GROUP

Ref. No.	Part No.	Qty. Req.	Description
1	1608955	1	Frame Assembly
2	158337	2	Bushing
3	912808	3	Grease Fitting
4	158569	2	Bearing
5	156064	2	Bushing
6	158542	1	Gear & Bearing Assembly
7	158541	2	Shaft, Intermediate
8	158561	4	Thrust Collar
9	918111	4	Roll Pin, 1/8" x 1" lg.
10	158563	1	Shift Link - Lo
11	919314	3	Cotter Pin, 3/16" x 1-1/4" lg.
12	918448	2	Cotter Pin, 3/32" x 1" lg.
13	1602155	6	"E" Ring
14	158578	3	Spring
15	106944	1	Gear & Shaft Assembly
16	153079	1	Washer
17	153124	1	Retaining Ring
18	158557	1	Reverse Pinion
19	158534	1	Reverse Shaft
20	158562	2	Thrust Collar
21	921450	1	Roll Pin, 5/32" x 1" lg.
22	916188	2	Roll Pin, 1/8" x 3/4" lg.
23	158564	1	Reverse Shift Link
24	923360	1	Cotter Pin, 1/16" x 3/4" lg.
25	158570	1	Gear & Bearing Assembly
26	158535	1	Shift Link, HI
27	158548	1	Brake Shaft Assembly
28	158352	1	L.H. Axle Shaft
29	158530	1	Drive Gear
30	158356	1	Bushing
31	118252	1	Washer

Ref. No.	Part No.	Qty. Req.	Description
32	158537	1	Set Collar
33	928709	1	Set Screw, 5/16"-18 x 3/8" lg.
34	158358	1	Thrust Cup
35	158359	1	R.H. Axle w/Bushing Assembly
36	158579	4	Pinion
37	121083	4	Pinion Spindle
38	121084	4	Pinion Spacer
39	158364	1	Plate
40	158365	1	Bushing
41	921972	4	Hex Capscrew, 3/8"-16 x 2-1/4" lg.
42	923428	4	Locknut, 3/8"-16
43	158521	1	Gear Case Assembly
44	158524	1	Gasket
45	927428	9	Taptite Screw, 1/4"-20 x 3/8" lg.
46	918452	2	Cotter Pin, 1/8" x 1" lg.
47	176438	1	Shift Rod Assembly
48	158576	1	Spring
49	8051056	2	Special Washer
50	176419	1	Lever Assembly
51	928721	1	Set Screw 5/16"-18 x 1/2"
52	1609280	1	Shift Rod Guide
53	172923	1	Shift Pattern Plate
54	927429	4	Taptite Screw, 1/4"-20 x 5/8" lg.
55	917377	4	Plain Washer, 1/4"
56	1601042	1	Ball
57	1608938	1	Plate, Hitch
58	924856	3	Screw, Taptite, 5/16"-18 x 1/2"
59	925003	1	Screw, Hex Washer, Hd. 1/4"-20 x 1/2"
60	901496	1	Nipple, Pipe



BRAKE GROUP

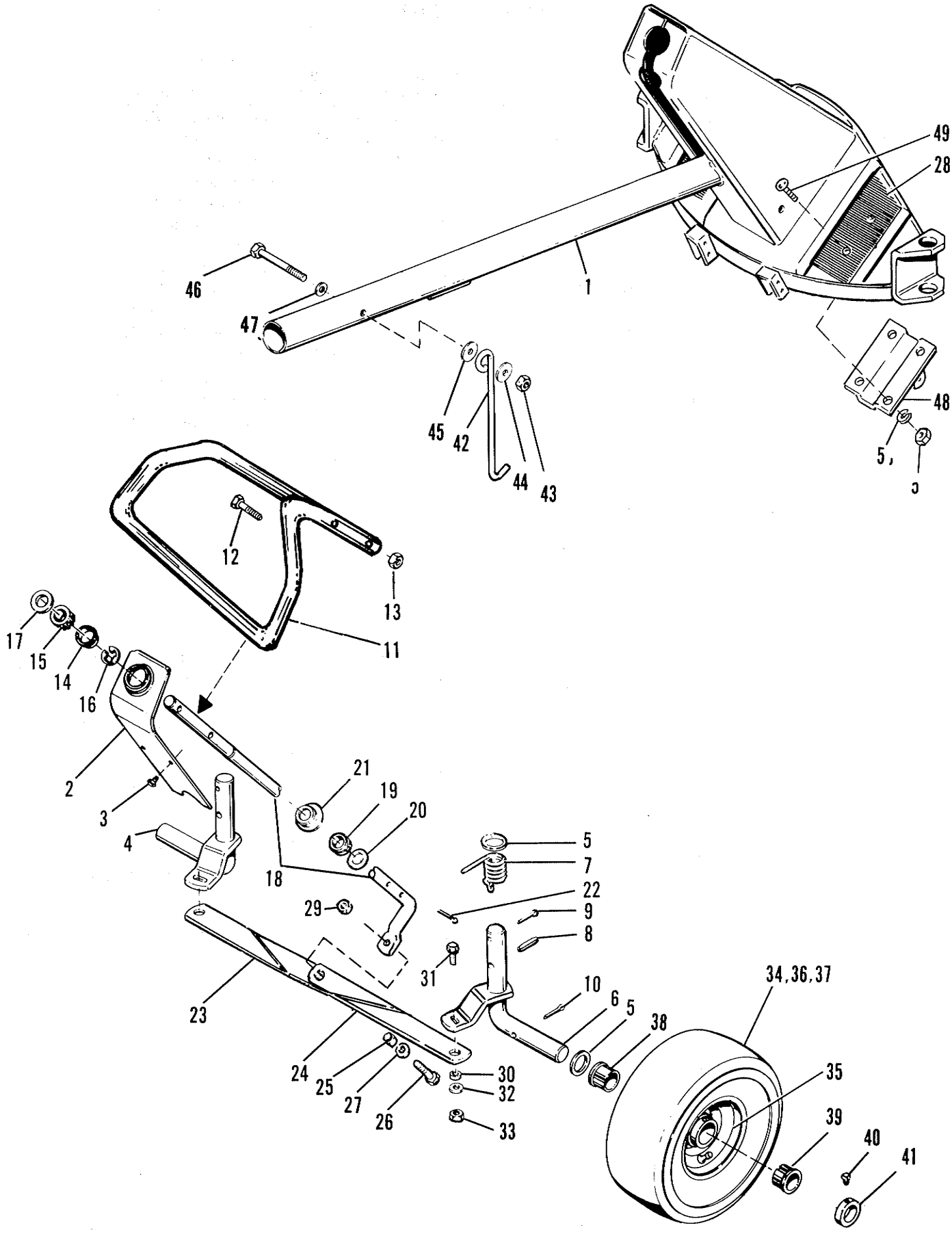

No. 71 Brake Band Assembly
Consist of:
1 158554 Brake Band
1 156136 Brake Lining
3 724502 Rivets

BRAKE GROUP

Ref. No.	Part No.	Qty. Req.	Description
1	1608950	1	Engine Pulley
2	911712	2	Set Screw, 5/16"-18 x 5/16"
3	172668	1	Key
4	158377	1	Pulley
5	158378	4	Special Washer
6	1608954	1	V Belt
7	917642	1	Plain Washer, 5/16"
8	917356	1	Lock Washer, 5/16"
9	923325	1	Hex Capscrew, 5/16"-18 x 7/8"
10	154534	2	Idler Pulley
11	917642	4	Plain Washer, 5/16"
12	922249	2	Carriage Bolt, 3/8"-16 x 1"
13	923428	2	Hex Nut, Full, Lock, 3/8"-16
14	158537	1	Idler Arm Assembly
15	916960	1	Plain Washer, 17/32"
16	918452	2	Cotter Pin, 1/8" x 1"
17	158536	1	Brake and Clutch Lever
18	921960	1	Hex Capscrew, 1/4"-20 x 1"
19	923358	1	Hex Nut, Full, Lock, 1/4"-20
20	156303	1	Rod Guide Assembly
21	923362	1	Hex Nut, Full, Lock, 5/16"-18
22	924433	1	Elastic Stop Nut, 5/16"-18
23	1608951	1	Clutch Rod
24	153010	2	Spring
25	8191022	4	Set Collar
26	918448	2	Cotter Pin, 3/32" x 1"
27	930539	2	Set Screw, 1/4"-20 x 5/8"
28	916955	1	Plain Washer, 3/16"
29	118495	1	Spring
30	172179	1	Spacer
31	157041	1	Spring
32	158604	1	Foot Pedal Assembly
33	162098	1	Pedal Pad
34	1608657	1	Spacer
35	923428	1	Hex Nut, Full, Lock, 3/8"-16
36	1608960	1	V Belt
37	158630	1	Pulley and Shaft Assembly
38	119018	1	Washer

Ref. No.	Part No.	Qty. Req.	Description
39	1609052	1	Housing Assembly
40	108054	2	Needle Bearing
41	915019	1	Grease Fitting
42	158396	1	Retaining Ring
43	1609449	1	Trans. Drive Pulley
44	158399	1	Retaining Ring
45	1609004	1	Pulley
46	917642	1	Plain Washer, 5/16"
47	916965	1	Lockwasher, 3/8"
48	916950	1	Hex Nut, Full, 3/8"-16
49	158461	1	Idler Lever Assembly
50	1609257	1	Spring
51	158609	1	Clutch Rod
52	918448	1	Cotter Pin, 3/32" x 1"
53	158406	1	Rod Guide Assembly
54	163103	1	Spring
55	176587	1	P.T.O. Brake Assembly
56	175290	1	Spring
57	176427	1	Control Handle Assembly
58	923362	1	Hex Nut, Full, Lock, 5/16"-18
59	158437	1	Knob
60	918452	1	Cotter Pin, 1/8" x 1"
61	1609442	1	Brake Rod
62	176425	1	Lever
63	921959	1	Hex Capscrew, 1/4"-20 x 5/8" lg.
64	923358	1	Hex Nut, Full, Lock, 1/4"-20
65	176429	1	Brake Guide Assembly
66	153121	1	Spring
67	919314	1	Cotter Pin, 3/16" x 1-1/4"
68	1609261	1	Brake Lever
69	916964	1	Lockwasher, 1/4"
70	916622	1	Hex Nut, Full, 1/4"-20
71	158552	1	Brake Band Assembly
72	165067	1	Brake Drum
73	930669	1	Key, 5/32" x 5/8"
74	905564	1	Set Screw, 5/16"-18 x 3/8"
75	928804	2	Set Screw, 1/4"-20 x 3/8"

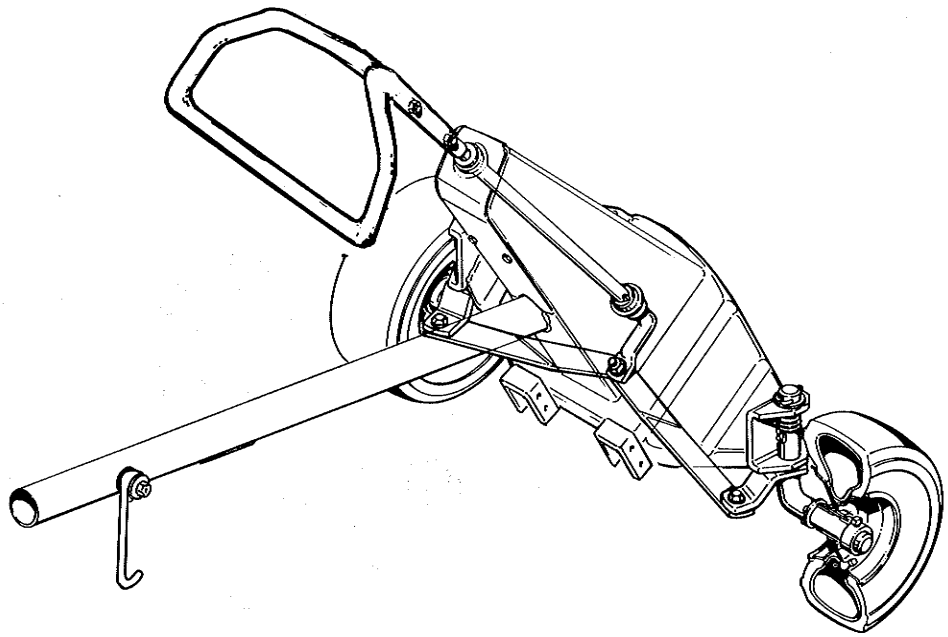
STEERING, FRAME, AND FRONT WHEEL GROUP



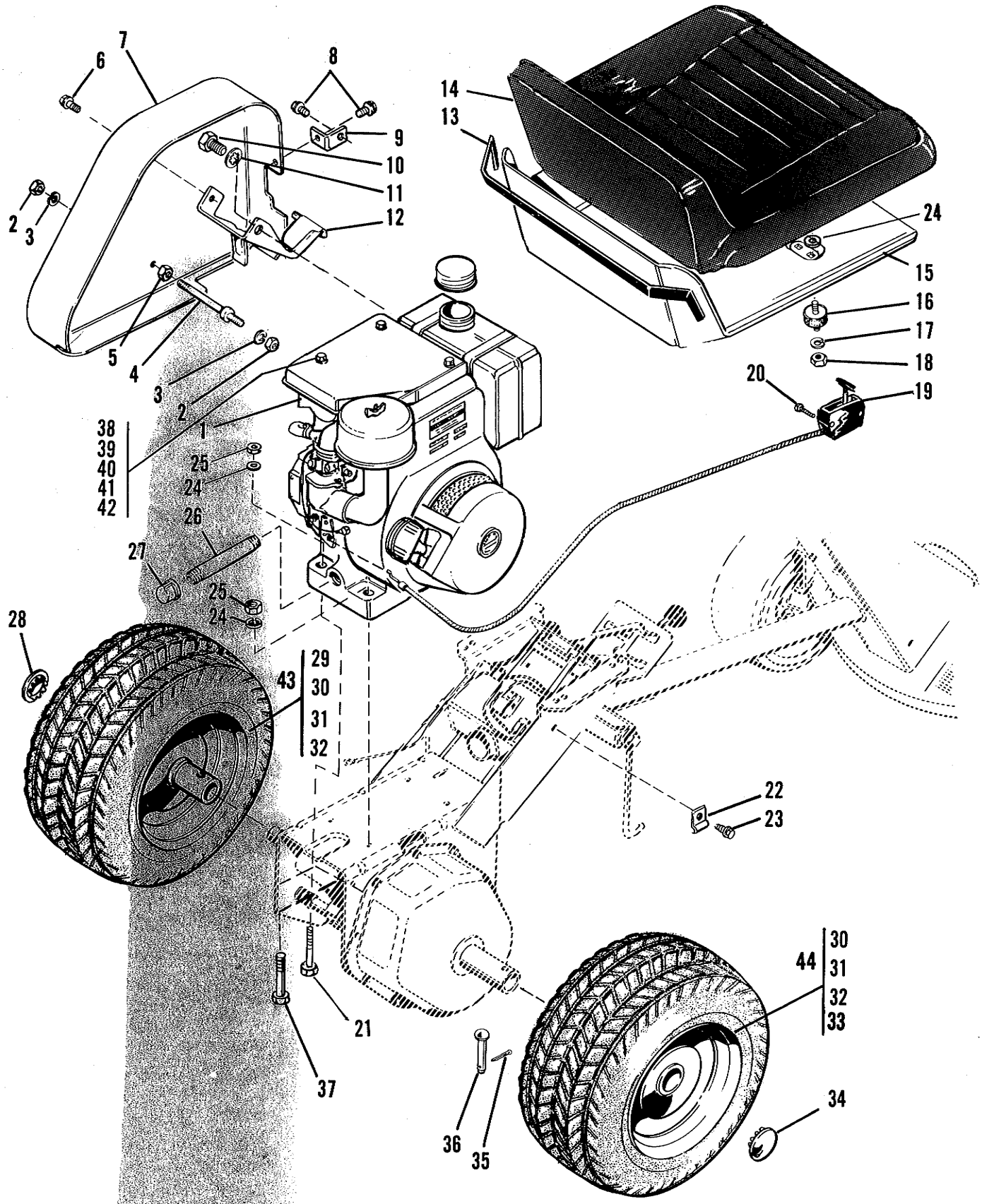
STEERING, FRAME, AND FRONT WHEEL GROUP

Ref. No.	Part No.	Qty. Req.	Description
1	1609448	1	Front Frame & Axle Assy.
2	158215	1	Steering Support Cover
3	923735	2	Self Tapping Screw, No. 10 x 3/8" lg.
4	158545	1	L. H. Spindle Assembly
5	101022	4	Washer
6	158547	1	R. H. Spindle Assembly
7	121011	2	Spring
8	925362	2	Roll Pin, 5/16" x 1-1/4" lg.
9	918448	2	Cotter Pin, 5/32" x 1" lg.
10	919314	2	Cotter Pin, 3/16" x 1-1/4" lg.
11	158574	1	Steering Handle
12	921221	2	Hex Capscrew, 5/16"-18 x 1-1/2" lg.
13	923362	2	Locknut, 5/16"-18
14	158222	1	Steering Cup
15	157077	1	Steering Bushing
16	147241	1	Retaining Ring
17	158223	1	Washer
18	1608948	1	Steering Shaft
19	159026	1	Bushing
20	108181	1	Washer
21	158012	1	Steering Cup
22	919430	2	Cotter Pin, 5/32" x 1-1/4" lg.
23	158225	1	L. H. Steering Link
24	158226	1	R. H. Steering Link
25	158227	1	Spacer
26	921969	1	Hex Capscrew, 3/8"-16 x 1-1/2" lg.

Ref. No.	Part No.	Qty. Req.	Description
27	917378	1	Flat Washer, 3/8"
28	158428	2	Pad, Foot
29	923428	1	Locknut, 3/8"-16
30	153081	2	Spacer
31	928728	2	Whiz-Lock Screw, 3/8"-16 x 1" lg.
32	917378	2	Flat Washer, 3/8"
33	916950	2	Hex Nut, Full, 3/8"-16
34	1608379	2	Front Wheel & Tire Assy. (inc. 35-39)
35	1608380	2	Wheel
36	163108	2	Tire
37	163109	2	Tube
38	163110	2	Bearing
39	163111	2	Bearing Relief
40	928691	2	Set Screw, 5/16"-18 x 5/16" lg.
41	8021010	2	Set Collar
42	176709	1	Hook
43	923428	1	Hex Nut, Full, Lock 3/8"-16 NC
44	917378	1	Flat Washer, 3/8"
45	159134	1	Special Washer
46	923938	1	Hex Capscrew, 3/8"-16 NC x 3-1/2" lg.
47	917378	1	Plain Washer, 3/8"
48	1609426	2	Hitch Assembly, Mower
49	922249	6	Bolt, Carriage, 3/8"-16 NC
50	916965	6	Lockwasher, 3/8"
51	916950	6	Hex Nut, Full 3/8"-16 NC



ENGINE, SEAT, AND REAR WHEEL GROUP

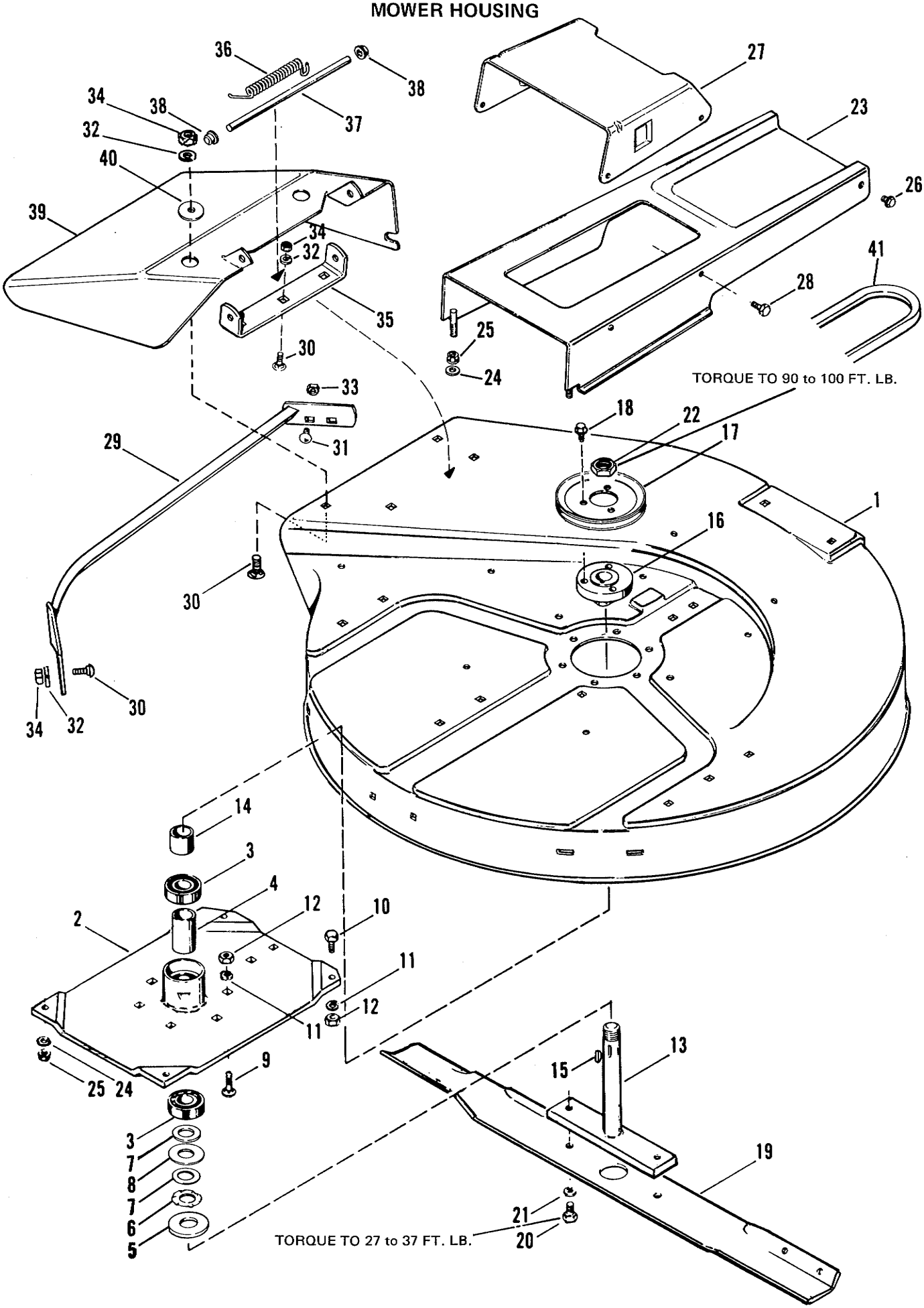


ENGINE, SEAT, AND REAR WHEEL GROUP

Ref. No.	Part No.	Qty. Req.	Description
1	1608945	1	Engine, 8 H.P.
2	917372	2	Hex Nut, Full, 5/16"-18
3	917356	2	Lockwasher, 5/16"
4	158418	1	Stud, Pulley Guard
5	923362	1	Locknut, Hex, 5/16"-18
6	924856	2	Screw, Taptite, 5/16"-18 x 1/2"
7	1609445	1	Pulley Guard
8	928729	2	Screw, Taptite, 5/16"-18 x 3/8"
9	1609444	1	Pulley Guard Bracket
10	924086	1	Capscrew, Hex, 1/2"-20 x 3/4"
11	909589	1	Lockwasher, 1/2"
12	1609443	1	Belt Stop
13	159177	7 Yds.	Tape
14	1610429	1	Seat Pad
15	1610362	1	Seat Panel
16	157094	4	Cushion Connector
17	917356	8	Lockwasher, 5/16"
18	917372	8	Nut, Hex, 5/16"-18
19	1608962	1	Throttle Control Assembly
20	928732	2	Screw, Taptite, 10-24 x 1
21	156151	1	Special Capscrew
22	926271	1	Cable Clamp, Throttle
23	924856	1	Capscrew, Hex, Washer Hd. 5/16"
		4	-18 x 1/2"

Ref. No.	Part No.	Qty. Req.	Description
24	917642	4	Washer, Flat, 5/16"
25	923362	1	Locknut, Hex, 5/16"-18
26	901496	1	Pipe Nipple
27	901752	1	Pipe Cap
28	158433	1	Plug Button
29	1608917	2	L.H. Wheel Assembly
30	159156	2	Tire
31	1603991	2	Tube
32	156305	1	Valve Cap
33	1608916	1	R.H. Wheel Assembly
34	158436	2	Plug Button
35	918451	2	Cotter Pin, 1/8" x 3/4"
36	118053	3	Pin
37	917398	2	Capscrew, Hex, 5/16"-18 x 1-3/4"
38	929000	1	Taptite Screw
39	919316	1	Capscrew, Plate
40	1608963	1	Heat Shield
41	1608980	1	Heat Shield Support
42	1608994	1	Spacer
43	1608919	1	Wheel & Tire Assembly, L.H. (inc. 29-32)
44	1608918	1	Wheel & Tire Assembly, R.H. (Inc. 30-33)

MOWER HOUSING

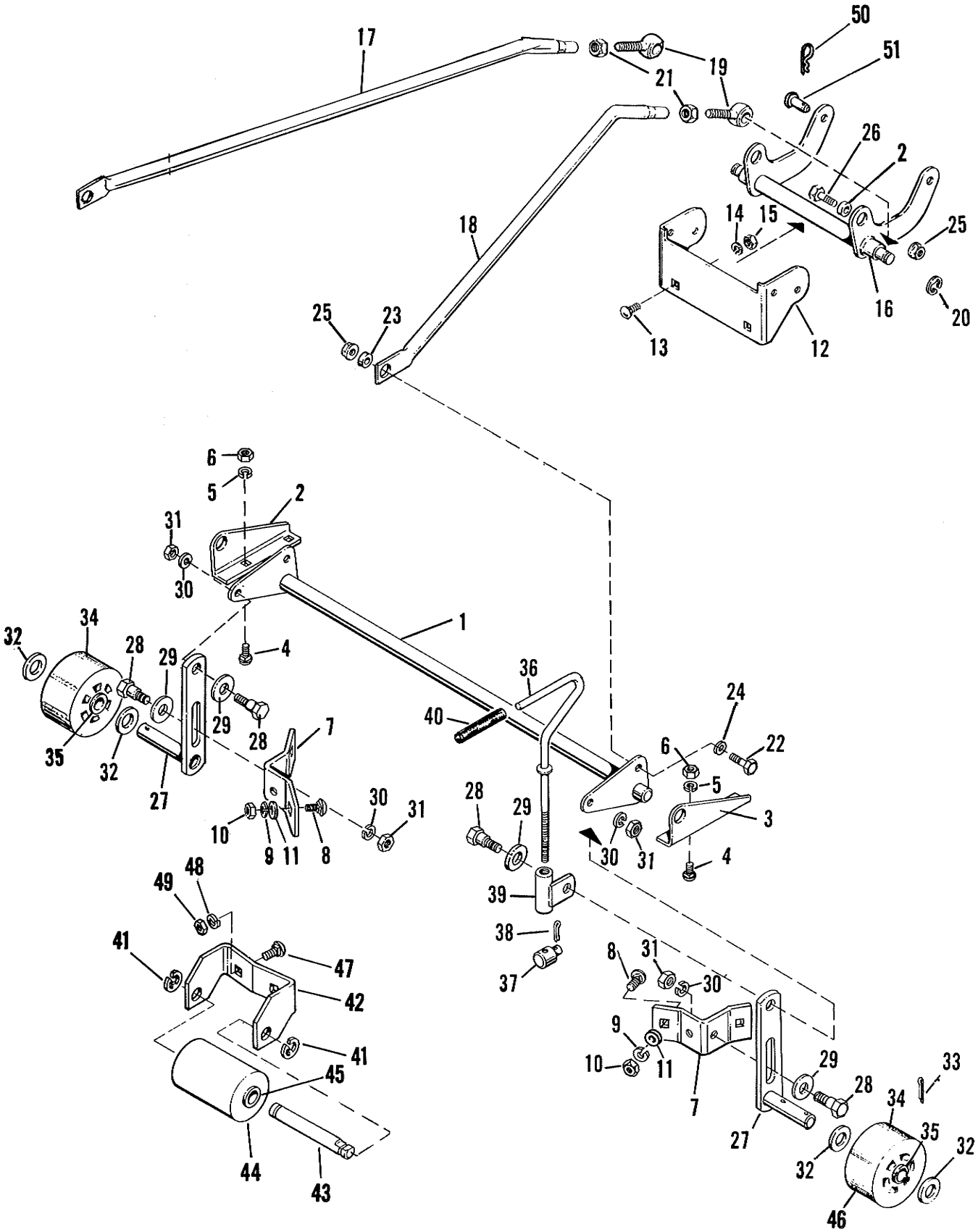


MOWER HOUSING

Ref. No.	Part No.	Qty. Req.	Description
1	1608351	1	30" Mower Housing
2	1651298	1	Arbor Tube Assembly
3	108202	2	Bearings, Ball
4	176984	1	Spacer
5	108182	1	Washer, Arbor
6	108181	1	Washer
7	108472	2	Washer
8	108257	1	Washer
9	921158	6	Bolt, Carriage, 5/16"-18 x 1" lg.
10	921333	2	Capscrew, Hex, 5/16"-18 x 1" lg.
11	917356	8	Lockwasher, 5/16"
12	917372	8	Nut, Full, Hex, 5/16"-18
13	1651293	1	Arbor Assembly
14	1651295	1	Spacer
15	918312	1	Key, 3/16" x 5/8"
16	1651404	1	Hub, Pulley
17	1608959	1	Pulley
18	177932	3	Screw, Thread Forming, 3/8"-16 x 3/4" lg.

Ref. No.	Part No.	Qty. Req.	Description
19	1651297	1	30" Blade
20	923490	2	Capscrew, Hex, 3/8"-16 x 1"
21	916965	2	Lockwasher, 3/8"
22	1607021	1	Nut, Hex, Jam, 3/4"-16
23	1609032	1	Lower Cover Assembly
24	917642	4	Washer, Plain, 5/16"
25	923362	4	Locknut, Hex, 5/16"-18
26	928730	2	Capscrew, Hex, 3/8"-16 x 1/2" lg.
27	176791	1	Cover, Upper
28	927428	2	Screw, Taptite, 1/4"-20 x 3/8"
29	1608374	1	Stone Guard Assembly
30	920562	4	Bolt, Carriage, 5/16"-18 x 3/4" lg.
31	919413	2	Bolt, Carriage, 5/16"-18 x 1/2" lg.
32	917356	6	Lockwasher, 5/16"
33	917372	6	Nut, Full Hex, 5/16"-16
34	1651492	1	Deflector
35	8161199	2	Washer, Special
36	921133	1	Fitting, Grease
37	1608957	1	Belt, V

MOWER CONTROL GROUP

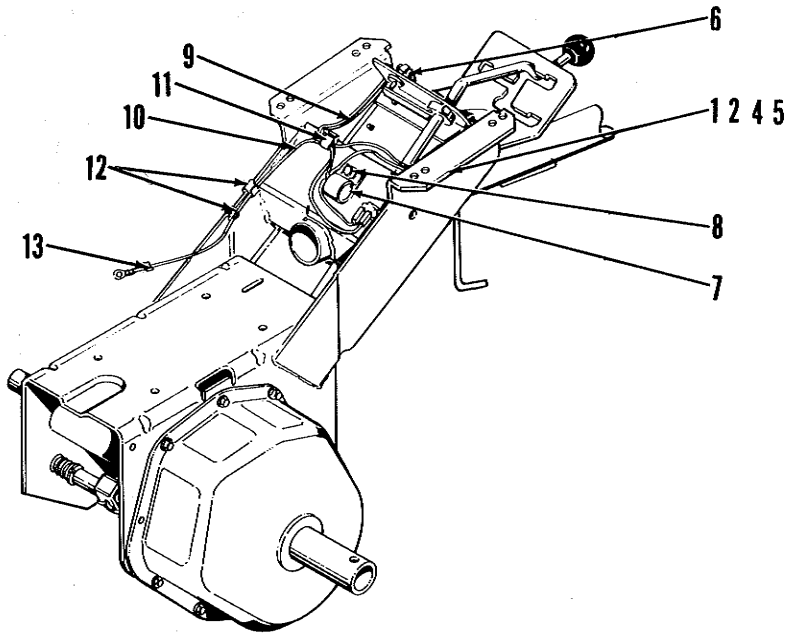


MOWER CONTROL GROUP

Ref. No.	Part No.	Qty. Req.	Description
1	1608949	1	Arm Assembly
2	176769	1	L.H. Pivot Bracket
3	176770	1	R.H. Pivot Bracket
4	919413	4	Carriage Bolt, 5/16"-18 x 5/8"
5	917356	4	Lockwasher, 5/16"
6	917372	4	Hex Nut, Full, 5/16"-18
7	160211	2	Roller Support Bracket
8	919413	4	Carriage Bolt, 5/16"-18 x 5/8"
9	917356	4	Lockwasher, 5/16"
10	917372	4	Hex Nut Full, 5/16"-18
11	918430	4	Plain Washer, 7/16"
12	1608940	1	Front Mower Bracket
13	919413	2	Carriage Bolt, 5/16"-18 x 5/8"
14	917356	2	Lockwasher, 5/16"
15	917372	2	Hex Nut, 5/16"-18
16	1608946	1	Link Arm Assembly
17	175942	1	L.H. Adjusting Arm
18	176736	1	R.H. Adjusting Arm
19	157215	2	Eyebolt
20	1602244	2	Retaining Ring
21	919262	2	Hex Jam Nut, 1/2"-20
22	921210	2	Hex Capscrew, 3/8"-16 x 1"
23	153081	2	Spacer
24	917378	4	Washer, 3/8"
25	923428	4	Locknut, Hex, 3/8"-16
26	108711	2	Shoulder Bolt
27	1607603	2	Roller Support Assembly

Ref. No.	Part No.	Qty. Req.	Description
28	1602186	4	Shoulder Bolt
29	918430	3	Plain Washer, 7/16"
30	916965	4	Lockwasher, 3/8"
31	916950	4	Hex Nut, Full, 3/8"-16
32	919387	4	Plain Washer
33	919314	4	Cotter Pin, 3/16" x 1-1/4"
34	1603206	2	Roller
35	108419	4	Bushing
36	176775	1	Handle
37	108172	1	Pivot
38	918448	1	Cotter Pin, 3/32" x 1"
39	176777	1	Rod Guide Assembly
40	176985	1	Grip
41	1602155	2	Ring, "E"
42	1603204	1	Bracket, Center Roller
43	1603205	1	Shaft, Center Roller
44	108431	1	Roller Assembly, Center (inc. Ref. No. 45)
45	108419	2	Bushing, Center Roller
46	1603206	2	Roller Assembly, End (inc. Ref. No. 34 and 35.)
47	925562	2	Bolt, Carriage, 5/16"-18 x 3/4"
48	917356	2	Lockwasher, 5/16"
49	917372	2	Nut, Hex, 5/16"-18"
50	106788	2	Clip, Hairpin
51	156306	2	Pin

ELECTRICAL GROUP

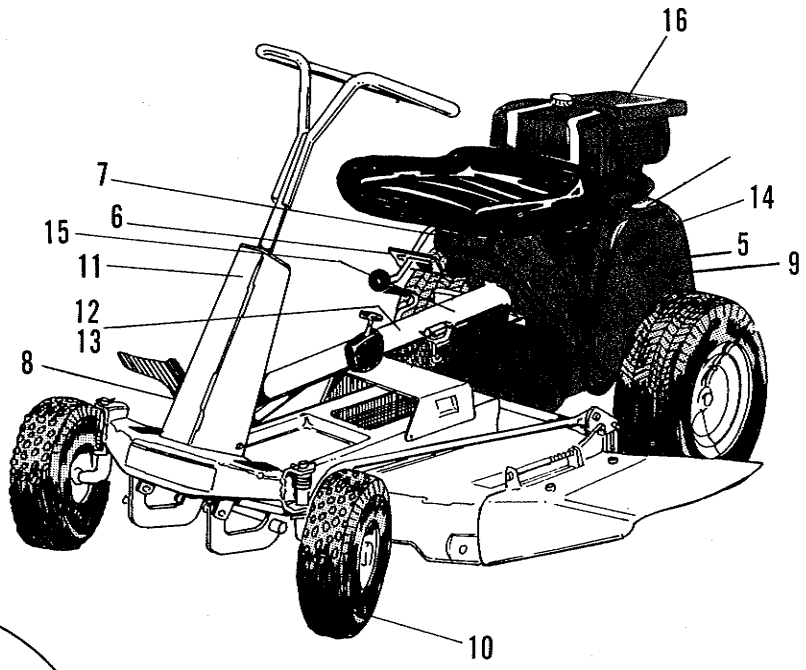


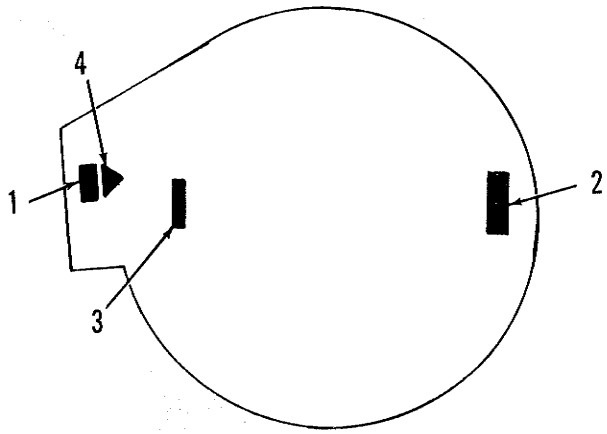
Ref. No.	Part No.	Qty. Req.	Description
1	177163	1	Switch, Ignition
2	177164	1	Adaptor
*3	122203	1	Key and Ring Assembly
4	918906	1	Lockwasher, 5/8"
5	122234	1	Nut, Hex
6	1609279	2	Switch, Safety
7	1609276	1	Interlock, Ignition
8	927428	1	Screw, Self-tapping, 1/4"-20 x 3/8"
9	1609277	1	Lead
10	176480	1	Wire
11	176675	1	Clip, Speed Cable
12	176701	2	Clip, Speed Cable
13	176687	1	Clip, Speed Cable

*Not Shown

ORDER BY PART NUMBER

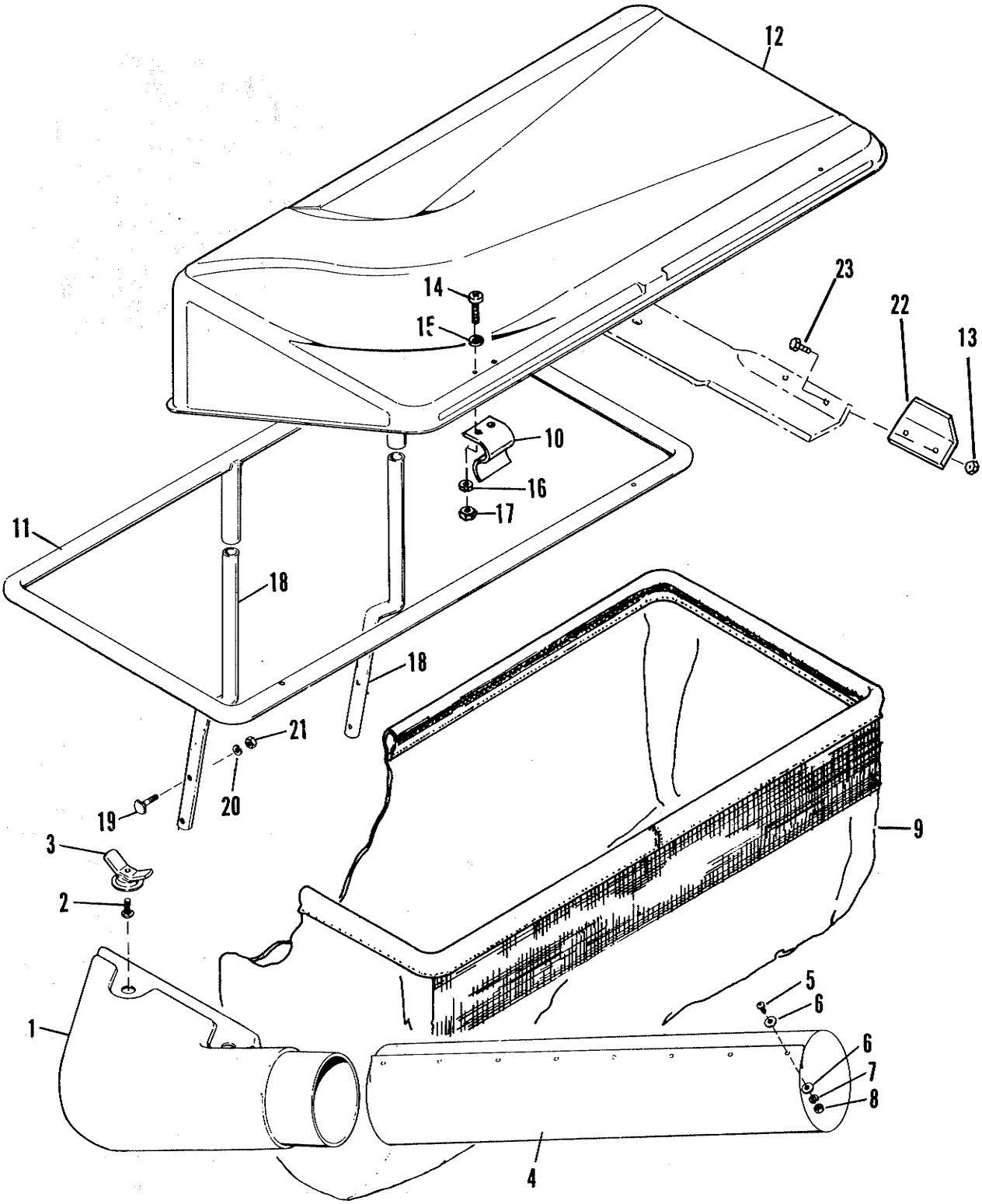
FILM & DECALS





Ref. No.	Part No.	Qty.	Description
1	176719	1	DECAL, Danger
2	176720	1	DECAL, Caution
3	1608445	1	DECAL, Safety
4	1653205	1	DECAL, OPEI
5	158452	1	FILM, Clutch (Mower PTO)
6	172989	1	FILM, Shift Pattern
7	174886	1	FILM, Switch
8	174924	1	FILM, Instruction, Pedal
9	178498	1	FILM, Simplicity
10	1607336	1	FILM, Tire Inflation
11	1651896	1	DECAL-S
12	1651922	1	FILM, 3008
13	1651923	1	FILM 3008 (Insert)
14	1609232	1	FILM, Safety
15	1609061	1	FILM, Parking Brake
16	1609140	1	FILM, Caution

REAR MOUNTED GRASS CATCHER (MFG. NO. 1600383)

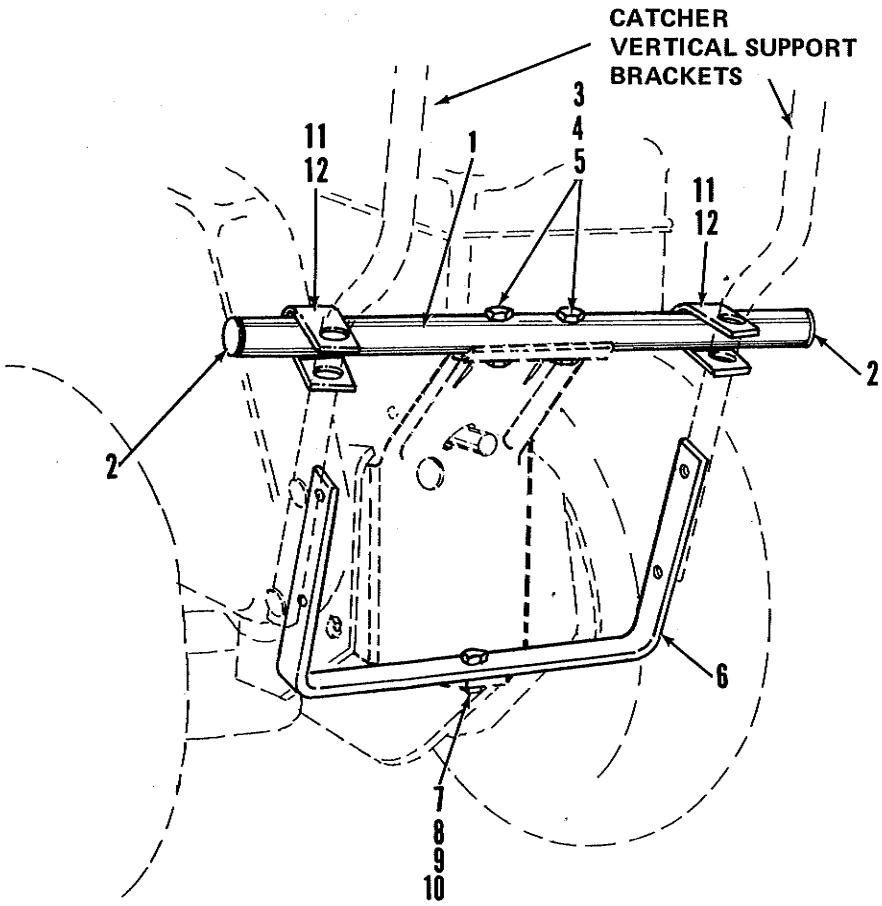


ORDER BY PART NUMBER

REAR MOUNTED GRASS CATCHER (MFG. NO. 1600383)

Ref. No.	Part No.	Qty. Req.	Description
1	176871	1	Adaptor
2	123103	2	Nut Assembly
3	920563	2	Bolt, Carriage, 5/16"-18 x 1"
4	177104	1	Tube, Discharge
5	930531	8	Screw, Phillips Hd., 10-32 x 1/2"
6	916955	16	Washers, Flat, 3/16"
7	909055	8	Lockwasher, No. 10
8	917415	8	Nut, Hex, 10-32
9	177086	1	Bag, Grass
10	178609	4	Clips
11	178364	1	Support Assembly
12	177109	1	Cover
13	923362	4	Locknut, Hex, 5/16"-18
14	930531	8	Screw, Phillips Hd., 10-32 x 1/2"
15	916955	8	Washer, Plain, 3/16"
16	909055	8	Lockwasher, No. 10
17	917415	8	Nut, Hex, 10-32
18	177096	2	Support, Vertical
19	177249	4	Bolt, Curved Head
20	917356	4	Lockwasher, 5/16"
21	917372	4	Nut, Full Hex, 5/16"-18
22	177243	2	Plate, Lift
23	925205	4	Capscrew, Hex, 5/16"-18 x 5/8"

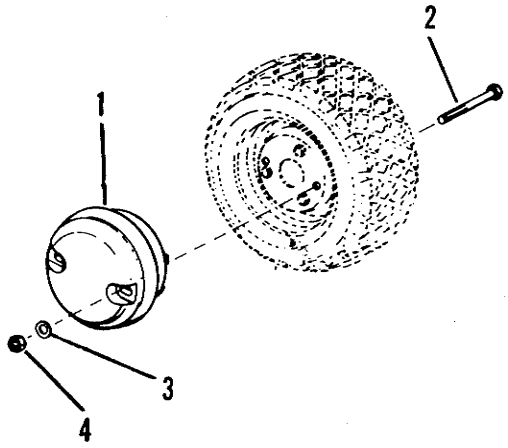
DRAWBAR & GRASS CATCHER ADAPTOR KIT



Ref. No.	Part No.	Qty. Req.	Description
1	1608958	1	Rear Tube
2	1608835	2	Button Plug
3	921221	2	Hex Capscrew
4	917356	2	Lockwasher
5	917372	2	Hex Nut
6	177392	1	Support Bracket
7	921210	1	Hex Capscrew
8	917378	1	Flat Washer
9	916965	1	Lockwasher
10	916950	1	Hex Nut
11	177391	2	Clamp
12	927428	2	Thread-cutting Screw

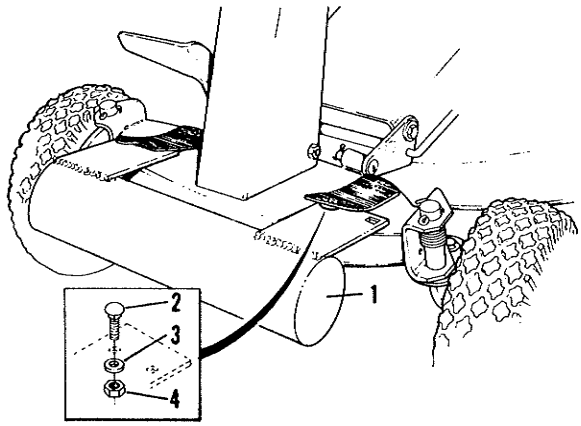
ORDER BY PART NUMBER

WHEEL WEIGHT – MFG. NO. 1600012



Ref. No.	Part No.	Qty. Req.	Description
1	162097	1	Weight, Wheel
2	920260	2	Capscrew, Hex, 3/8"-16 x 4-1/4"
3	917378	2	Washer, Flat, 3/8"
4	916950	2	Nut, Hex, 3/8"

COUNTER WEIGHT (MFG. NO. 1600351)



Ref. No.	Part No.	Qty. Req.	Description
1	177397	1	Counterweight Assembly
2	923232	2	Bolt, Carriage, 3/8"-16 x 1"
3	916965	2	Lockwasher, 3/8"
4	916950	2	Nut, Hex, 3/8"-16

ORDER BY PART NUMBER